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MARCH 1910

VOL. V. No. 1

# CENTRAL UNIVERSITY OF KENTUCKY

## RECORD

## CATALOGUE

OF

## THE CENTRE COLLEGE

AND

## THE COLLEGE OF LAW

## 1909--1910

Published Quarterly by Central University of Kentucky  
Danville, Kentucky

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# CENTRAL UNIVERSITY OF KENTUCKY

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CATALOGUE

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## HISTORICAL SKETCH

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Central University of Kentucky, as at present constituted dates its incorporation from 1901, and is, therefore the youngest of Kentucky's institutions of higher learning, but its constituent parts, the Centre College and the Central University, have an honorable history, reaching many years into the past.

The Centre College was chartered by the Legislature of Kentucky in the year 1819. Its first president, the Rev. Jeremiah Chamberlain, D. D., was inducted into office in 1823. According to an arrangement with the Synod of the Presbyterian Church in Kentucky, the Board of Trustees procured, in the year 1824, an act of the Legislature modifying the charter of the college so as to secure to the Synod, on the payment of \$20,000 into the treasury of the institution, the right to appoint the Board of Trustees. The condition thus imposed upon the Synod was fulfilled in 1830, and since that time all the members of the board have been appointed by the Synod as their terms of office expired, one-fourth of the board being appointed every year.

Dr. Chamberlain resigned the presidency in 1826, and the Rev. Gideon Blackburn, D. D., succeeded him in 1828; in the interval the office had been temporarily filled by the Rev. David C. Proctor. On the resignation of Dr. Blackburn in 1830, the Rev. John C. Young, D. D., was elected president. Dr. Young died in office June 23, 1857, and on the 6th of August following, the Rev. Lewis

W. Green, D. D., was elected his successor, and entered upon his duties January 1, 1858. Dr. Green died in office, May 26, 1863, and on the 16th of October following, the Rev. Wm. L. Breckenridge, D. D., was elected president. On the 29th of the same month he accepted the position, and entered at once upon its duties. These he continued to discharge until his resignation, October 16, 1868. Professor Ormond Beatty, LL. D., being at the time vice president, was requested to act as president until a successor to Dr. Breckenridge should be chosen. He continued to do so until the Board of Trustees elected him president September 1, 1870. Dr. Beatty tendered his resignation to the board November 30, 1886, and it was accepted, "to take effect upon the qualification of his successor." The Rev. William C. Young, D. D., son of the distinguished former president, Dr. John C. Young, was elected president June 18, 1888, and Dr. Beatty was formally released from his official duties. Dr. Young entered upon his office September 5, 1888; his death occurred September 16, 1896. June 7, 1898, after an interval during which the duties of president were discharged by Prof. John C. Fales, LL. D., Dean of the College, the Rev. William Charles Roberts, D. D., LL. D., was unanimously elected president. He took up the duties of the office immediately and remained president of the Centre College and of the new Central University until his death, which occurred November 27, 1903. On April 15th, 1904, the Rev. Frederick W. Hinitt, Ph. D., D. D., was unanimously chosen to fill the vacant presidency.

The Centre College is one of the oldest institutions of higher education in Kentucky, or in the South or the West, having graduated its first class as early as 1824.



It has prosecuted its work successfully, and without interruption, from that day to the present. Not a year has passed in which it has not sent out graduates, until the entire body of its alumni numbers at this time nearly 1,600.

The Centre College has educated twenty-five college presidents, fifty college professors, twenty-nine representatives in Congress, five United States Senators, nine Governors of States, two Vice Presidents of the United States, one Justice of the Supreme Court of the United States, forty-nine Circuit Judges (state or national), six moderators of the General Assembly of the Presbyterian Church, and seventy-four editors.

The other constituent part of the institution, known as the Central University, was organized under a charter granted by the Legislature of Kentucky March 3, 1873, providing for the establishment of an institution of the highest order, on the university plan, under the auspices of the Southern Synod of Kentucky. The College of Philosophy, Letters and Science at Richmond, and the Hospital College of Medicine, at Louisville, were opened for students in September, 1874. The Louisville College of Dentistry was organized and opened at Louisville, January, 1888, and the College of Law, at Richmond, October, 1898.

The government of the University was vested in a Chancellor, as chief executive officer, and a Board of Curators elected at first by the Alumni Association, but afterward by the Synod of Kentucky. The Rev. Robert L. Breck, D. D., was the first chancellor, and the Rev. John W. Pratt, D. D., the first president of the faculty.

In June, 1880, Doctors Breck and Pratt resigned, and the University was practically re-organized. The Rev. L. H. Blanton, D. D., was elected chancellor, and Rev. J. V. Logan, D. D., president of the faculty, and both continued in office until the consolidation of the institution with the Centre College.

The first class, consisting of nine members, was graduated from the Central University in 1877; and for twenty-four years it sent out classes varying from six to twenty-eight well-trained young men, the last three or four classes being the largest in the history of the institution. It sent forth in all about 300 graduates, besides many others who hold certificates of proficiency in separate departments of study. These young men are found in all the walks of life. It gave to the church about forty ministers of the gospel, who are among its ablest and most useful pastors.

The College of Medicine graduated 900 Doctors of Medicine. The College of Dentistry graduated 406 Doctors of Dental Surgery, and the College of Law, 15 Bachelors of Law. During the twenty-seven years of its separate existence, over 8,000 students received their education, in whole or in part, in connection with the University's four colleges and three university schools. The aggregate matriculation in the last year before the consolidation was eleven hundred and sixty-four.

The two institutions described above were legally consolidated in August 1901, under the corporate name of "Central University of Kentucky," the seat of which was fixed at Danville, Boyle county. No better location could have been selected for a great institution of learning.

Danville is an ideal college town, healthful, beautiful and free from most of the temptations to youth found in other places of its size. The campus embraces forty-three and one-third acres of blue grass, covered with a large variety of fine trees. The buildings are substantial and commodious, and are connected by hundreds of yards of superb concrete walks and a macadamized carriage road.

In the summer of 1908 the College of Medicine united with the other medical schools in Louisville and ceased to be a part of the Central University.

In 1908 Centre College was placed upon the list of accepted institutions of "The Carnegie Foundation for the Advancement of Teaching."

As at present constituted, Central University is governed by a self-perpetuating Board of Trustees composed of twenty-four members. It comprises the Centre College, as the classical, scientific and literary department; the College of Law, as the law department; and the Louisville College of Dentistry, as the dental department.



# CENTRAL UNIVERSITY OF KENTUCKY

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## OFFICERS,

REV. FREDERICK WILLIAM HINITT, PH. D., D. D., *President*  
*of the University*

J. A. CHEEK, Esq., *Treasurer*

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C. C. FOX, Esq.	Danville
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### Term Expires 1911

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### Term Expires 1912

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### Term Expires 1913

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REV. H. GLASS, D. D.	Somerset
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R. T. QUISENBERRY, Esq.	Danville

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\* Deceased.



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REV. G. H. ROUT, D. D., <i>Chairman</i>	Versailles
J. A. CHEEK, Esq., <i>Secretary and Treasurer</i>	Danville

**STANDING COMMITTEES OF THE BOARD OF TRUSTEES**

The President of the University is ex-officio member  
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**Executive Committee**

G. W. WELSH, *Chairman*.

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HEMPHILL, D. D., CHAS. C. FOX, ROBT. T. QUISENBERRY.

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**Morals and Discipline**

REV. W. FRANCIS IRWIN, D. D., *Chairman*.

REV. W. C. CONDIT, D. D., A. J. A. ALEXANDER, M. D.

THE CENTRE COLLEGE  
OF KENTUCKY

# Calendar 1909

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# Calendar 1910

JANUARY							FEBRUARY							MARCH							APRIL							
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# Calendar 1911

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# THE CENTRE COLLEGE OF KENTUCKY

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## CALENDAR

1909

SEPTEMBER 15	Fall term begins. Examination and registration of students.
SEPTEMBER 16	Examination and registration of students.
OCTOBER 1	Last day for registration of graduate students.
NOVEMBER 25—27	Thanksgiving recess.
DECEMBER 10—17	Term examinations.
DECEMBER 17	Noon. Christmas recess begins.

1910

JANUARY 5	Winter term begins. Registration of students.
JANUARY 5—11	Examinations for removal of conditions.
JANUARY 28	Inter-Society Debate for Ernst prizes.
FEBRUARY 10 } FEBRUARY 13 }	Prayer for Colleges.
FEBRUARY 22	Washington's Birthday.
MARCH 14—19	Term examinations.
MARCH 21	Spring term begins. Registration of students.
MARCH 21—26	Examinations for removal of conditions.
APRIL 15	Last day for receiving applications for Fellowships.
MAY 7	Last day for receiving theses of candidates for the degree of Master of Arts.
MAY 30 to } JUNE 4 }	Term examinations.

JUNE 5	Baccalaureate Sermon, 11 A. M.
JUNE 5	Address before Young Men's Christian Association, 8 P. M.
JUNE 6	Annual Oratorical Contest, 8 P. M.
JUNE 7	Meeting of Trustees, 9:30 A. M.
JUNE 7	Class-day Exercises, 10 A. M.
JUNE 8	Annual Commencement, 10 A. M.
JUNE 9	Summer vacation begins.
SEPTEMBER 21	Fall term begins. Examination and registration of students.
SEPTEMBER 22	Registration of students.
OCTOBER 1	Last day for registration of graduate students.
NOVEMBER 24—26	Thanksgiving recess.
DECEMBER 21	Noon. Christmas recess begins.

## 1911

JANUARY 5	Winter term begins. Registration of students.
JANUARY 5—11	Examinations for removal of conditions.
FEBRUARY 9	} Prayer for Colleges.
FEBRUARY 12	
FEBRUARY 22	Washington's Birthday.
MARCH 13—18	Term examinations.
MARCH 20	Spring term begins. Registration of students.
JUNE 14	Annual Commencement.



# THE CENTRE COLLEGE OF KENTUCKY

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## FACULTY

- FREDERICK WILLIAM HINITT, PH. D., D. D.  
*President; Professor of Philosophy* President's House
- JOHN W. REDD, A. M. 243 N. Third Street  
*Dean; Professor of Greek Language and Literature*
- JOHN CILLEY FALES, A. M., LL. D. 141 Fifth Street  
*Librarian; Professor of Geology and Biology, Emeritus*
- ALFRED BRIERLY NELSON, A. M., M. D.  
*Professor of Mathematics, Emeritus* 413 W. Lexington Street
- SAMUEL ROBERTSON CHEEK, A. M. 120 E. Lexington Street  
*Professor of Latin Language and Literature*
- CHARLES GRAHAM CROOKS, A. M. 346 N. First Street  
*Henry Bell Walters Professor of Mathematics*
- ARCHIBALD HALL THROCKMORTON, A. M., LL. B.  
*Professor of History, Economics and* 461 W. Main Street  
*Political Science*
- THOMAS LINDSEY BLAYNEY, PH. D. 345 Maple Avenue  
*Professor of Modern Languages, and the History of Art*
- FRIEND EBENEZER CLARK, PH. D. 232 N. Third Street  
*Professor of Chemistry; Secretary of the Faculty*
- FRANK LEWIS RAINEY, S. B. 117 S. Third Street  
*Professor of Biology and Geology*

NEWLAND FARNSWORTH SMITH, PH. D. 448 W. Main St.  
*Professor of Physics*

DANIEL LINDSEY THOMAS, PH. D. 453 W. Broadway  
*Professor of English*

STANLEY PRINCE FARWELL, B. S. Breckinridge Hall  
*Assistant Professor of Electrical Engineering*

JOHN Q. A. McDOWELL, D. D. 463 W. Broadway  
*Instructor in Biblical Literature*

J. RICE COWAN, M. D. 228 S. Fourth Street  
*Instructor in Hygiene*

MARK BEAL BANKS Breckinridge Hall  
*Instructor in Physical Culture*

JACK HYNES McCHORD, A. B. 354 Maple Avenue  
*Fellow, and Preceptor in Latin and History*

JOHN SHUCK McELROY, A. B. 346 N. First Street  
*Fellow, and Preceptor in English*

MADISON JOHNSON LEE, A. B.  
*Fellow, and Preceptor in Physics*

FREDERICK IRELAND HESS, A. B., 312 Maple Avenue  
*Fellow, and Preceptor in Chemistry*

LAWRENCE WHITE HAGER, A. B. 345 Maple Avenue  
*Fellow, and Preceptor in German*

HUGH CASSIDAY, A. B. Breckinridge Hall  
*Fellow, and Preceptor in Biology*

PHILLIPS RYAN  
*Assistant in Library*

**STANDING COMMITTEES OF THE FACULTY**

The President of the University is ex-officio member of all Committees.

**UNDERGRADUATE STUDIES**

Professors REDD, RAINEY, CHEEK, CROOKS, THROCKMORTON.

**GRADUATE STUDIES**

Professors CLARK, BLAYNEY, THOMAS.

**STUDENT ATHLETICS**

Professors THROCKMORTON, RAINEY, CHEEK.

**STUDENT ORGANIZATIONS AND PUBLICATIONS**

Professors THOMAS, RAINEY, CHEEK.

**PUBLIC FUNCTIONS AND CONTESTS**

Professors BLAYNEY, THROCKMORTON, THOMAS.

**PUBLICATION**

Professors CROOKS, RAINEY, SMITH.

**CONFERENCE**

Professors CHEEK, CROOKS, CLARK.

**SCHEDULE**

Professors SMITH, CLARK, FARWELL.

**LECTURE COURSES**

Professors RAINEY, REDD, THROCKMORTON.

**ACCREDITED SCHOOLS**

President HINITT, Professors BLAYNEY, CROOKS.

**COLLEGE BUILDINGS**

Library and Gymnasium—Professors CHEEK, THOMAS.

Main Building—Professors REDD, RAINEY.

Young Hall—Professors CLARK, SMITH.

Breckinridge Hall—Professors BLAYNEY, FARWELL.

Old College—Professors THROCKMORTON, CROOKS.

### CLASS OFFICERS

Senior Class.....	Professor Redd
Junior Class.....	Professor Rainey
Sophomore Class.....	Professor Cheek
Freshman Class .....	Professor Crooks
Special Students.....	Professor Throckmorton

# GENERAL INFORMATION

---

## LOCATION

### ADVANTAGES OF LOCATION

Danville, the seat of the College, is situated on the main line of the Queen & Crescent Railroad, extending with its leased lines from Cincinnati to New Orleans, and is the terminus of the Louisville division of the Southern Railway; it is also near the Lebanon and Knoxville branch of the Louisville and Nashville Railroad, and is easily accessible from all quarters. Danville is very near the geographical center of the state, within the "Blue Grass" region, and is surrounded by an exceedingly beautiful and fertile country. It has an elevation of about one thousand feet above the level of the sea, and the surrounding country is undulating so as to afford perfect drainage. Probably no healthier spot can be found within the limits of the State. Malaria is unknown except when brought in from other sections of the country. This small city of about 5,000 inhabitants is noted for its high moral tone, and for the refinement and intelligence of its people. It has long been the seat of important educational institutions for both men and women. The students of the College receive a warm welcome among the most cultured families of the city; few students come to Danville who do not find homes in it for which they form strong attachments and from which they part with reluctance. The town has strong churches of all denominations, and the people are church-going. *There are in the town no licensed saloons for the sale of intoxicating liquors.* The saloons were closed many years since by the Trustees under the instruction of a decided vote of the people, and a special act of the Legislature makes it unlawful to retail liquor within two miles of the city limits.



## ACCESSIBILITY

The way to reach Danville is via the trunk line known as the Queen & Crescent Route, or by the Southern Railway from Louisville and intervening and connecting points. Solid vestibuled trains via the Q. & C. run from New Orleans, Meridian, Birmingham and Chattanooga to Danville without change. There are eighteen passenger trains daily between Danville, Lexington, Louisville and Cincinnati.

## COLLEGE BUILDINGS

## THE MAIN BUILDING

This building, which was completed and occupied in the fall of 1871, is of brick with stone trimmings. It contains three stories and basement. On the first floor are the museum and the biological lecture room and laboratories. The second floor contains the chapel and the lecture rooms of the Departments of English, Latin and Greek. On the third floor are the halls and libraries of the literary societies.

## BRECKINRIDGE HALL

This building was erected in 1892, and rebuilt in 1908 in much improved form, having been practically destroyed by fire March 2, 1908. It is a three-story building containing the executive offices, the lecture and class rooms of the Department of Modern Languages, a large drawing room, and two separate halls furnishing dormitories equipped with every modern convenience.

## YOUNG HALL

This handsome building recently completed, is a memorial to the distinguished presidents of Centre College, Dr. John C. Young, and Dr. William C. Young.

The building is 75 by 116 feet, three stories high, and is of Bedford stone and buff pressed brick, with tile roof. The basement story is of cut stone, and the rest of the structure of brick handsomely trimmed with cut stone. The interior of the

building is finished with white pressed brick, and the interior wood finish is of yellow pine, with heavy beams and wood ceiling.

The whole building, which is devoted to the work of the departments of Chemistry, Physics, Mathematics, and Engineering, is so admirably fitted for the work for which it is designed that it is not too much to say, that the student of Centre College will find here every equipment for the work of these departments. The building is not excelled in the completeness of its arrangements by any scientific building in the country.

### THE OLD COLLEGE

In this, the oldest building now upon the campus, the whole work of the College was conducted until 1871. The College of Law now occupies the south wing, while the remainder of the building is used as a boarding hall and dormitory.

### THE BOYLE-HUMPHREY GYMNASIUM

This handsome building is the gift of two of the honored alumni whose names it bears. It was erected in 1890 at a cost of \$12,000, and affords opportunity for all forms of indoor athletics.

### SAYRE LIBRARY

The College library, consisting of about 22,000 volumes, is for the present located in this building, which contains a large, well furnished reading room where students have access to the library as well as to numerous magazines.

## LABORATORIES AND MUSEUM

### CHEMISTRY

The department of chemistry is located on the third floor of Young Hall. There are laboratories well equipped for the work outlined in this catalogue. The laboratory for the first-year work extends along the entire eastern end of the building; it will accommodate 112 students. This laboratory is connect-

ed with the other portions of building through the hall, which completely surrounds the inner court, and through the main stock room, which opens into the large lecture room and this, in turn into the private office and laboratory of the professor in charge. The west end of the building contains the laboratories for organic chemistry and qualitative chemical analysis. The laboratory for quantitative chemical analysis, a recitation room and the balance room are to the north. Two laboratories, one for physical chemistry and one for sanitary chemistry, are on the first floor.

The desks in all the laboratories are arranged in such fashion that the working surface is unbroken. Through the centre of each desk runs a lead lined trough, into which all the water from the taps falls, these troughs empty into large alberene stone sinks, at the end of each section of desks. The water and gas fixtures are placed over the centre of the troughs, with convenient connections for use on either side of the desks. All desk tops, except those in the laboratory for organic chemistry, which are of alberene stone, are treated with a preparation which makes them practically impervious to reagents.

The hoods in all laboratories and lecture rooms are equipped with the usual gas and water connections; with hydrogen, oxygen, hydrogen sulphide, these gases being available at all times; and with hot water baths, so arranged that when not in use they do not obstruct the surface of the desk of the hood.

The main lecture room, with seats for eighty students, arranged in amphitheater style, is supplied with every modern convenience. There is on tap at the lecture desk, hydrogen, oxygen, hydrogen sulphide, coal gas, compressed air and hot and cold water. In rear of the black boards, which are well arranged for convenience, on a sliding frame in such fashion that a continuous surface of black board extends from the height of desk to the ceiling, is a large hood, lined with white porcelain, and fitted with many useful conveniences. Experiments with objectionable gases can be performed in full view of the class, without any danger of contaminating the air of the lecture room.

The private laboratory of the professor is so located that he can watch the progress of the work in the laboratories for

organic chemistry and qualitative analysis. These laboratories are separated by glass partitions.

The library for the department of chemistry is located on the second floor of Young Hall, and is connected with the physical library. In it are found two complete sets of journals, the *Journal of the English Chemical Society* from the beginning in 1841 and the *American Chemical Journal* from 1880. There are also a number of partially complete sets, and at all times eight or ten current copies of journals are available for the use of the students. The variety of texts on nearly all phases of chemistry give ample opportunity for supplementary reading.

### PHYSICS

The whole of the second floor of Young Hall and a large part of the first floor are used for instruction in physics. The second floor contains two large laboratories, one 72 by 22 and one 41 by 22 feet, a lecture room with eighty seats and a recitation room with forty, two rooms for apparatus and supplies, the physics and chemistry library and a professor's office with private laboratory adjoining. On the first floor are situated two rooms which can be darkened for photometric and spectrophotographic work, a photographic dark room, a laboratory for physical chemistry, a room with double walls for constant temperature work, a storage battery room, a laboratory with piers for delicate work in electrical measurements and a dynamo laboratory. The laboratories are supplied throughout with heavy oak individual tables and equipped with gas, water and compressed air pipes. Alternating current is supplied from the city power plant and direct current from a rotary converter and storage batteries. There is a sufficient supply of apparatus for elementary work to allow of the laboratory experiments being conducted on the multiple plan. For more advanced work there is provided a good collection of accurate resistance boxes, sensitive ballistic and dead-beat galvanometers, portable voltmeters and ammeters, Wheatstone bridges, mica and paper condensers, induction coils, spectrosopes, a polariscope, an interferometer, a Sharp-Millar photometer, and other apparatus suitable for accurate measurements.

## BIOLOGY

The biological laboratories are now located on the first floor of the main building of the College. They include a laboratory for general biology, for bacteriology, for animal histology and morphology, and for physiology. There is also a large lecture room and an office and professor's private laboratory. The equipment is modern and includes thirty-five microscopes of the Bausch and Lomb BB4 type, a Minot microtome for paraffine sections, paraffine baths, a Bausch and Lomb microtome for celloiden sections, and other equipment necessary in a well organized biological department. A very complete bacteriological equipment has been added during the last two years. This includes steam and hot air sterilizers, an autoclave, a large incubator, serum inspissator, etc. This department is thus in a position to devote considerable attention to this important subject both from its pre-medical aspect and that of a general economic value.

## MUSEUM

The Museum is well equipped with material for illustrations in all branches of geological study. The typical minerals are systematically arranged so that one can see by a glance at the label where each belongs in its relations to others; the various ores, with duplicates convenient for study, are provided for critical examination.

In palaeontology, fossils typical of all the epochs are on the shelves and in the work-room for special inspection. The rarer forms, such as Ichthyosaurus, Plesiosaurus, Pterodactylus, Dinosaurus, Glyptodon, and Megartherium, are represented by Ward's casts, supplied through the liberality of the late Dr. John W. Scott.

## ATTENDANCE, EXAMINATIONS AND STANDING

## REGISTRATION AND ATTENDANCE

All students should present themselves punctually at the opening of the session in September. Many disadvantages result from late entrance, and in some instances it has been



found impossible for a student entering late to maintain his standing in the class. Prompt attendance is, therefore, earnestly enjoined upon all who wish to derive the full benefits of the course of instruction.

Prompt and regular attendance is required on all class and laboratory exercises. According to the method of recording absences, a student will lose the value of his course credits in proportion to his failure in attendance.

#### PUBLIC WORSHIP

Devotional exercises, consisting of prayers, hymns, and Scripture reading, are conducted in the chapel every morning, and all the students are required to be present. They are also required to attend the preaching of the Gospel at least once on each Sabbath.

#### EXAMINATIONS

Examinations of all the classes are held at the close of each of the three terms, and are conducted by the several professors in their departments. Special examinations are held during the year, as needed.

#### REPORTS

Reports of each student's scholarship, attendance and general deportment are made to his parent or guardian three times a year. Special reports are made at shorter intervals if there is anything in the student's conduct or standing to call for them.

#### RANK OF SCHOLARSHIP

The rank of scholarship in the graduating class of each year will be indicated in the Commencement program as follows: *Summa cum laude*, prefixed to a degree, indicates that the recipient is a first-class scholar; *magna cum laude*, second-class; *cum laude*, third class; those with no prefix have a grade below 85.

When the grade of a student falls below 60, the instructor will report the fact at once to the President, who will send an

official notification of the deficiency to the student, *and at the same time to the student's parent or guardian.*

When a student has had a grade of less than 60 for four consecutive weeks, he shall be dropped from the class, unless the instructor requests his retention on probation for a short time.

## ADMINISTRATION

The general principles of the College government are embraced in the following statement:

Since the sole aim of the Trustees in framing the College laws and regulations, and that of the Faculty in administering them, is to secure the best interests of the students, it is confidently expected that everyone will yield a cheerful obedience to them. The government of the College is intended to be mild, granting to each student all privileges and enjoyments consistent with his own welfare and that of his associates; at the same time it must be firm, enforcing obedience to all the restraints and restrictions which the Trustees or the Faculty shall deem it their duty to enjoin. If any offend against the rules, their reformation will be strictly aimed at so far as practicable, and no severe or humiliating penalty will be inflicted, except when the paramount interests of the institution demand it. The students are treated as gentlemen and are expected to conduct themselves as such.

The general rules of the College are formulated in the Hand-book of College Legislation, and all students are expected to be familiar with the contents of this book.

## HONOR SYSTEM

By a practically unanimous vote, the student body, in October, 1906, adopted the Honor System in examinations. Under this system, administered by the students themselves, there is no watching by any officer of the College during examinations, but each student is required to write on his paper a pledge that he has neither given nor received help in connection with the examination.

## BOARDING AND DORMITORY FACILITIES

### BOARDING

Many of the students live in private families, in which they enjoy the advantage of a Christian home, and are thus preserved from many temptations. Here the rates for board and room range from \$5.00 to \$6.00 per week.

The provision of good board for those who, on account of limited means, are not able to pay these prices, has been felt to be one of the most pressing needs of the College. This need has been largely met. Good board will henceforth be furnished at the lowest possible terms in the College Home and in Breckinridge Hall.

### THE COLLEGE HOME

In this, the Old College building, very comfortable rooms sufficient to accommodate a number of young men, have been fitted up. These rooms, furnished with stove, chairs, bed, table and washstand, are rented for the small annual charge of \$8.00 to applicants of good character and limited means.

The plan of placing the boarding department in the hands of students selected by the Faculty to carry out, has proved successful, and the price of table board for the present year is only \$2.75 per week. Application for accommodations in the Home should be made to the President as early as possible.

### BRECKINRIDGE HALL

The fire of March 2, 1908, which practically destroyed Breckinridge Hall, though a temporary inconvenience, resulted in a permanent gain to the equipment of the College, as the reconstructed building furnishes facilities of the most modern type, with every convenience that such a building should have. Under the new plan it is divided into two halls, known as East Breckinridge and West Breckinridge. Each hall is complete in itself. The number of single rooms has been increased, while a sufficient number of suites are provided to meet the needs of students who desire to be together. The

building is steam heated throughout, while ample facilities for bathing and all toilet necessities are found on each side. Gas and electricity are installed for lighting, and either can be used at the option of the resident. Ample fire protection is also provided on each floor, with outlet from stand pipe and hose reel.

The addition of a hospital room for non-infectious diseases, with private bath room attached, to be used at the command of a physician, furnishes a suitable equipment, both sanitary and comfortable, in the case of students who may be confined to the hall by minor ailments.

The janitor service of the dormitory includes the care of rooms, making of beds and all necessary attention.

The rooms are newly furnished. The furniture includes single iron bed with springs and mattress, table, chairs, dresser, and washstand. All earthenware goods will be furnished by the occupant of the room, as also rugs, curtains, bed linen, and covers, pillows, etc. Light is extra, according to kind used.

Students rooming in Breckinridge Hall are required to make a deposit of \$5.00 to cover damages to room or furniture. What remains of the deposit after paying for the damage done, will be refunded at the close of the year.

#### RENTAL OF ROOMS

Rates for rooms vary according to size and location. An illustrated circular with floor plans will be sent upon request.

#### SINGLE ROOMS

Nos. 27, 31, 24.....	\$36.00
Nos. 7, 10, 11, 14, 17, 19, 23.....	38.00
Nos. 29, 32.....	40.00
Nos. 1, 9, 12, 13, 21, 25, 23.....	42.00

#### DOUBLE ROOMS

(Room With Two Single Beds.)

Nos. 20, 30.....	\$25.00 double
	40.00 single

## SUITES

(Study and Two Bed Rooms.)

Nos. 2, 3, 4, 5, 6, 8, 15,

18, 22, 28.....\$40.00 for each occupant

Nos. 16, 24, 26,..... 45.00 for each occupant

A suite occupied by one student will cost \$80.00 per year.  
A single room can be occupied by only one student.

A suite of rooms can be occupied by no more than two students.

## APPLICATION FOR ROOMS

Rooms will be reserved in order of application.

Application for reservation must be made to J. A. Cheek, Treasurer, accompanied by a deposit of \$5.00, which will be credited on the rent of the room. If the room is not taken and the balance of the rent paid the deposit will be forfeited.

In making application it will be well to indicate the number of room according to first, second and third choice. Early application is recommended.

## PAYMENT OF RENT AND LIGHT

Room rent must positively be paid in cash in advance at the opening of each term. No bills for rent will be sent to parents or guardians. Bills for gas or electricity must be paid at the office not later than the 10th of the month. After that date, service will be discontinued to those in arrears.

## EXPENSES

## COLLEGE DUES

The Treasurer will be at the College for the collection of fees at the opening of each term, when all students are required to settle with him. Bills will be sent to parents or guardians upon written request from same. Before a student is admitted to actual standing in any class, a class card showing that he has complied with the rules relating to College charges must be presented. No fees will be returned save in cases of removal from the College on account of severe and protracted illness.

## UNDERGRADUATE DUES

Tuition for regular schedule, First Term	\$18.00
Second Term	16.00
Third Term	16.00
Contingent Fees, First Term,	6.00
Second Term,	5.00
Third Term,	5.00

Where a student is allowed to take work in excess of his class schedule or program, he is charged a supplementary fee of one dollar per hour for each additional course so taken.

The contingent fee is for the use of the library, gymnasium, heat for building and janitor service in care of same.

Damage deposit, \$1.00 per term. The order of the Board of Trustees as to this deposit is as follows:

Ch. 9. Sec. 2. When damage is done to the College buildings or the appurtenances thereof, and the one who did it cannot be detected, it shall be paid for out of a deposit of one dollar, required at the opening of each term of all students. What remains of the deposit after paying for the damages done, shall be refunded to the students at the close of the year.

There is no charge for registration, if it is completed on the Registration Days; *otherwise, a fee of One Dollar will be charged.* This fee will be remitted only by order of the President, upon presentation of a sufficient excuse for such delay. *This rule will be rigidly enforced.* The mere fact of the student returning to Danville after the opening of the term will not be considered as a ground for remitting the charge for late registration, unless the cause of such delay be illness or an equally important reason. *This rule, however, does not apply to new students who may enter college too late for registration on the regular days.*

A graduation fee of \$7.00, covering diploma fee and all expenses of Commencement Day, must be deposited by every candidate for graduation with the Treasurer of the College at the opening of the spring term. If the candidate should not receive a diploma, this deposit will be returned.

Laboratory fees are charged as follows:

*Chemistry*

Elementary Chemistry, per term, three hour course.....\$3.00

All advanced courses, per term, three hour course..... 4.00

*Physics*

All Laboratory courses, per term, three hour course..... 3.00

*Biology*

Elementary Biology, per term, three hour course..... 3.00

Comparative Anatomy, per term, three hour course..... 3.00

Histology, per term, three hour course..... 3.00

Bacteriology, per term, three hour course..... 4.00

Physiological Chemistry, per term, three hour course.... 3.00

*Shop Work*

Wood Shop, per term..... 3.00

Metal Shop, per term..... 3.00

The above fees cover the cost of ordinary experimental material, but students are charged extra for breakage and for special and rare material.

### GRADUATE DUES

For information concerning graduate dues, consult the general rules governing graduate study, page 58.

### ESTIMATE OF ANNUAL EXPENSES

The following is an approximate estimate of the annual expenses of a student, not including outlay for clothes, traveling or other strictly personal expenses.

	MAXI- MUM	MEDIUM	LOW	MINI- MUM
Board and Room for 38 weeks at \$5.00 to \$4.00	\$190 00	\$152 00		
Board at College Home club and room in (a) Breckinridge Hall, (b) College Home			\$125 00	\$ 93 50
Tuition payable in three installments, strictly in advance	50 00	50 00	50 00	50 00
Contingent fee, required of all	16 00	16 00	16 00	16 00
*Light, washing per year	20 00	20 00	15 00	15 00
Books	30 00	25 00	20 00	20 00
Total	\$306 00	\$263 00	\$226 00	\$194 50

\*Where students live in a private family, the light is included in the price of board.



A student holding a scholarship will reduce his expenses under schedule "Low" or "Minimum," \$30.00 to \$70.00, according to the grade of his scholarship. See rules below governing scholarships.

### SELF HELP

Lack of pecuniary means alone need not prevent young persons of energy and persistent purpose from obtaining a college education. Many find remunerative employment for leisure hours and vacations which enable them to complete the course free from debt. It is generally true that there is work to be had about town for those who want it. It cannot usually be engaged beforehand. The Christian Association will do all it can to aid students in finding work.

There are some opportunities for service in connection with the College open to qualified students.

### SCHOLARSHIPS

Scholarships, in distinction from prizes, are designed to aid those who are chiefly dependent upon their own exertions in securing a college education. It is not expected that those whose ordinary expenses can be met by parents or through other sources will apply for beneficiary aid.

All scholarships are awarded to students who meet the following requirements:

1. Good scholarship.
2. High personal character.
3. The need of pecuniary aid.
4. Punctuality, regularity, and respect for law and order in student life.
5. Habits of economy in the use of both time and money

There are five grades of scholarships, as follows:

\$30.00, \$40.00, \$50.00, \$60.00, \$70.00 a year.

Only the lowest grade of scholarship (at the rate of \$30.00 a year) is granted to new students; but subsequent awards are made strictly in accordance with the grades received for the student's work in college.

At the end of each term the scholarships are re-rated upon the basis of the student's record for scholarship during the previous term.

Students who show proficiency may be given a higher grade of scholarship. Scholarships may be reduced, or withdrawn entirely, in case of failure to maintain a proper standard of study, work or conduct.

The following additional rules govern the assignment of scholarships:

1. Application must be made on the blank forms provided by the Committee. In the case of new students, these applications should be filed as early as possible, accompanied by the testimonials indicated in the forms. All scholarships awarded to students *before admission* are granted provisionally, and will be confirmed on the 1st of November if the student meet the five requirements above mentioned.

2. Students already holding scholarships must renew their applications for the succeeding year on or before May 15th of each year. Awards will be made in June.

3. A scholarship, having been withdrawn, may be restored after the lapse of a term, if former deficiencies are made good and no new ones incurred.

4. In awarding scholarships preference is given to regular candidates for a degree, and those who intend to finish their course in Centre College.

#### GRADATION OF SCHOLARSHIPS

The system of scholarships based upon beneficiary aid will follow the grades which determine the standing of a student in College.

Beneficiary aid to the value of \$30.00 will be given for grade D, but will not be given below that grade except in cases of marked faithfulness in attendance and study.

Scholarship allowance begins with grade C.

To become the recipient of a \$40.00 scholarship, the beneficiary must sustain an average of grade C; for a \$50.00 scholarship an average of grade B; for a \$60.00 scholarship, an average of grade A; for a \$70.00 scholarship, he must meet the special

condition of award assigned to honor scholarships. No students can hold both beneficiary and an honor scholarship at the same time.

## PRIZES

### THE HENRY BARRET BOYLE PRIZE

The Henry Barret Boyle Prize, established by Gen. J. T. Boyle, is annually awarded to the best Latin student of the Sophomore class, provided that the contestant's work in every other department is of a high order. The prize consists of a valuable gold watch appropriately engraved. The award is publicly made by the President on Commencement Day.

### THE ORMOND BEATTY ALUMNI PRIZE

In 1886 the Alumni of Centre College contributed a fund of \$1,000 to signalize the completion of President Beatty's fifty years' service to his alma mater. The annual interest on this fund is publicly awarded on Commencement Day to the student of the Senior class who has the best record for punctuality, deportment and scholarship. In determining this award account is taken of Senior work only.

### ORATORICAL PRIZE

An oratorical contest between the two literary societies is held annually. The prizes awarded to the successful competitors consist of two gold medals presented by the College. The date of this contest is Monday evening of Commencement week.

### THE WILLIAM ERNST PRIZE

This prize has been offered by the Hon. Richard P. Ernst, of Covington, as a memorial of his father, Mr. William Ernst. The gift, amounting to \$75.00, is awarded in three prizes of \$25.00 each to the three ranking men in the Inter-Society Debate.

### THE FUNK AND WAGNALLS PRIZE

The Funk and Wagnalls Company, of New York City, offer a morocco edition of the Standard Dictionary, valued at \$30,

for excellence in some phase of English. The terms of award are decided upon from year to year by the Department of English.

#### HONOR SCHOLARSHIPS

A scholarship of \$70.00 is offered to that member of each class below the Senior year who maintains the highest general average in scholarship in the regular studies of his class and whose deportment and punctuality are correspondingly worthy. The winners of these scholarships will be announced at Commencement and the scholarship will be available during the next session.

#### BEQUESTS

Friends of the College desiring to make provision for legacies are invited to communicate with the President. The legal forms are given below:

#### THE CORPORATE NAME

The corporate name of this institution is, "Central University of Kentucky."

#### FORM OF BEQUEST

"I give and bequeath to Central University of Kentucky, for the sole use and benefit of The Centre College of Kentucky, located at Danville, in the State of Kentucky,—said Centre College being the academical department of said Central University—the following"—(here describe the thing or property given).

If the donor or testator desire that the money, stock, or property shall be devoted to a particular professorship, department, scholarship or medal, etc., he will, after describing the property or thing given as indicated above, add the following:

*"To be held in trust and used by said CENTRAL UNIVERSITY OF KENTUCKY under the control and direction of the Board of Trustees thereof, for"* (here describe the particular use desired to be made of the fund, or its annual interest).

## STUDENT ORGANIZATIONS

### *Religious*

#### YOUNG MEN'S CHRISTIAN ASSOCIATION

This society aims to bring students under good influences and to furnish opportunities for Christian work in the College and its vicinity. Special efforts are made to help new students through its organized methods.

The society has been provided with large and beautiful rooms in the Gymnasium, where its members meet for prayer and social intercourse. These rooms have been furnished by a generous friend.

### *Literary*

#### LITERARY SOCIETIES

There are two literary societies connected with the College,—the Chamberlain and the Deinologian. For these the College provides commodious halls, which have been handsomely fitted up and furnished by the members. Both societies are supplied with good libraries, each containing about 3,500 volumes which are receiving additions from year to year. The work of the societies is regarded as supplemental to that done in the class-rooms, and they are encouraged accordingly. Their exercises consist of debate, declamation, composition, and other forms of literary activity, and are conducted under such rules and regulations as the societies may adopt, consistent with the general objects of the college.

#### THE ROUND TABLE

The Round Table is a scholarship society of advanced students and members of the faculty, instituted in the fall of 1907. It is intended to conserve and stimulate an interest in literary and humanistic subjects beyond the work of the class-room. To this end, at the fortnightly meetings of the club, the members read and submit for discussion papers within the scope of the society's interests. Students who have completed with an excellent record in scholarship, two and one-half years of work, and who have shown an active interest in humanistic and literary subjects, are eligible for membership.

## ORATORICAL EXERCISES

The literary societies hold public exercises on the 22d of February; and on the Monday preceding Commencement Day, an oratorical contest takes place between representatives of these societies. To the successful competitor in each contest, a gold medal is awarded. The successful contestant in the former contest represents the College in the annual Inter-Collegiate State Oratorical Contest. The Ernst Debate has been established by Mr. Richard T. Ernst, of Covington, Ky., and is held as the preliminary debate in view of the annual Inter-Collegiate Debate of the Kentucky Inter-Collegiate Debating Association.

## STUDENT PUBLICATIONS

The students of the College publish a monthly paper, *THE CENTO*, which is devoted to the recording of current events in the college world, and to literary articles by the students, thus furnishing opportunity for valuable training in journalism to students with a gift for writing. In addition, an annual, *THE CARDINAL AND BLUE*, is published every spring by the Senior Class.

## ATHLETIC

The Athletic Association is composed of voluntary membership, and has charge of the outdoor sports of the College—football, baseball, track work and other athletic events. It is managed in connection with an advisory committee from the Faculty, and has been a marked success from its organization.

## ADMISSION TO THE COLLEGE

1. **ADMISSION BY EXAMINATION.**—Candidates for the Freshman class, who do not bring certificates from accredited schools, will be examined on the subjects necessary for entrance to the particular course chosen.

Examinations for admission are held on the first and second days of the first term. For the date see the Calendar on Page 15.

2. **ADMISSION BY CERTIFICATE.**—Students are admitted to the Freshman class upon presentation of a certificate issued by the

superintendent or principal of an accredited school. Blank certificates can be obtained by applying to the Secretary of the President, Central University, Danville, Ky.

A committee consisting of one representative from each of the Colleges in the Association of Kentucky Colleges is now engaged in an examination of the courses of study and facilities of the high schools and academies of Kentucky. A list of the schools accredited by this committee will be sent to each school.

## ENTRANCE REQUIREMENTS FOR THE VARIOUS DEGREES

### Total Requirement: 14 units

Every candidate for Courses A or B must offer the following:

English (page 42).....	3 units
Mathematics (page 44).....	3 units
Latin (page 45).....	3 units
History (page 47).....	1 unit
Science (page 48).....	1 unit

—  
Total.....11 units

Three additional units must be offered as follows:

### Classical Course, A

Greek (page 45).....	2 units
Latin (page 45).....	1 unit

—  
Total..... 3 units

### Modern Language Course, B

German (page 45).....	2 units
Latin (page 45).....	1 unit

—  
Total..... 3 units

NOTE. Greek may be substituted for German or German for Greek for entrance, but in either case the language for which sub-



stitution is made must be taken for three years for college credit.

Every candidate for Course C, or for any of the three Engineering Courses must offer the following:

English (page 42).....	3 units
Mathematics (page 44).....	3 units
History (page 47).....	1 unit
Science (page 48).....	1 unit

In addition, two to four units from the following group must be offered:

Latin (page 45).....	2 to 4 units
Greek (page 45).....	2 units
German (page 45).....	2 units
French (page 46).....	1 to 2 units

To complete the requirement of fourteen units for all courses, choice may be made from the following group:

Plane Trigonometry (page 45).....	$\frac{1}{2}$ unit
Mechanical Drawing (page 49).....	$\frac{1}{2}$ unit
Shop Work (page 49).....	$\frac{1}{2}$ unit
Physics (page 48).....	1 unit
Chemistry (page 48).....	1 unit
Botany (page 48).....	$\frac{1}{2}$ unit
Zoology (page 48).....	$\frac{1}{2}$ unit
Physical Geography (page 48).....	$\frac{1}{2}$ unit
Physiology (page 48).....	$\frac{1}{2}$ unit
History (page 47).....	1 unit
Civics (page 48).....	$\frac{1}{2}$ unit
English (page 43).....	1 unit

### *Definition of a Unit*

A unit is the satisfactory completion of a subject in a course involving five periods a week of not less than forty-five minutes each or four periods a week of not less than sixty minutes each, throughout an academic year of not less than thirty-six weeks of the preparatory school.

NOTE. Those offering Latin or Greek, but no German, for Course C, will take German and continue in this study through the Sophomore year.

## DEFINITION OF ENTRANCE REQUIREMENTS

I. *English*

The requirement in English includes (1) ability on the part of the applicant to express himself in writing in a clear and accurate manner, and (2) ability to appreciate the qualities that mark a work as being literature. Evidence of some power of literary appreciation, even despite ignorance of particular books or authors, will be held more acceptable than unappreciative literary learning.

*Grammar and English Composition.*—The applicant ought to be familiar with the essential principles of English grammar and be able to explain the syntactical structure of any sentence encountered in his reading. He must also possess the ability to write in a plain and natural style short compositions upon subjects familiar to him, correct in spelling, punctuation, grammar, idiom, and division into paragraphs. One unit.

*Reading in Literature.*—These readings are divided into two classes, books intended for thorough study and practice, and books intended merely for general reading. Two units.

For study and practice for 1910-11:—Shakespeare's *Macbeth*; Milton's *Lycidas*, *Comus*, *L'Allegro*, and *Il Penseroso*; Burke's *Speech on Conciliation with America*, or Washington's *Farewell Address* and Webster's *First Bunker Hill Oration*; Macaulay's *Life of Johnson*, or Carlyle's *Essay on Burns*.

For general reading for 1910-11 selections from the following list:

Group I. (two to be selected): Shakespeare's *As You Like It*, *Henry V*, *Julius Caesar*, *The Merchant of Venice*, *Twelfth Night*.

Group II. (one to be selected): Bacon's *Essays*; Bunyan's *The Pilgrim's Progress, Part I*; The Sir Roger de Coverley Papers in *The Spectator*; Franklin's *Autobiography*.

Group III. (one to be selected): Chaucer's *Prologue*; Spenser's *Faerie Queene*, (selections); Pope's *Rape of the Lock*; Goldsmith's *The Deserted Village*; Palgrave's *Golden Treasury* (First

Series) Books II. and III., with especial attention to Dryden, Collins, Gray, and Burns.

Group IV. (two to be selected); Goldsmith's *The Vicar of Wakefield*; Scott's *Ivanhoe*; Scott's *Quentin Durward*; Hawthorne's *The House of the Seven Gables*; Thackeray's *Henry Esmond*; Mrs. Gaskell's *Cranford*; Dickens's *A Tale of Two Cities*; George Eliot's *Silas Marner*; Blackmore's *Lorna Doone*.

Group V. (two to be selected): Irving's *Sketch Book*; Lamb's *Essays of Elia*; De Quincey's *Joan of Arc* and *The English Mail Coach*; Carlyle's *Heroes and Hero Worship*; Emerson's *Essays* (Selected); Ruskin's *Sesame and Lilies*.

Group VI. (two to be selected); Coleridge's *The Ancient Mariner*; Scott's *The Lady of the Lake*; Byron's *Mazeppa* and *The Prisoner of Chillon*; Palgrave's *Golden Treasury* (First Series) Book IV., with especial attention to Wordsworth, Keats and Shelley; Macaulay's *Lays of Ancient Rome*; Poe's *Poems*; Lowell's *The Vision of Sir Launfal*; Arnold's *Sohrab and Rustum*; Longfellow's *The Courtship of Miles Standish*; Tennyson's *Gareth and Lynette*, *Lancelot and Elaine*, and *The Passing of Arthur*; Browning's *Cavalier Tunes*, *The Lost Leader*, *How They Brought the Good News from Ghent to Aix*, *Evelyn Hope*, *Home Thoughts from Abroad*, *Home Thoughts from the Sea*, *Incident of the French Camp*, *The Boy and the Angel*, *One Word More*, *Hervé Riel*, *Pheidippides*.

It is expected that the applicant will have read these books appreciatively and will have made himself familiar with the subject-matter and the form of each work. The reading should be connected, in reasonable measure, with the lives and characters of the authors read and with the history of their time.

Although the books mentioned above are recommended as preparation for this part of the requirement, they are not prescribed. Books of equal merit, covering a similar range of literary types will be accepted as equivalent.

*The applicant must present an explicit statement from his instructor that the entire requirement has been fulfilled.*

*History of English Literature.*—The applicant who offers four units in English composition and literature should have pursued

the study throughout the four years of the high school course. In addition to the foregoing requirements, his preparation should include a systematic study of the outlines of English literary history. Due emphasis should be laid upon the division of the subject into periods; and the leading characteristics of each period should be studied, and as far as practicable, illustrated by the reading of representative authors. Any of the current manuals of English literature may serve as a basis for this part of the course. The historical study should, however, be associated as closely as possible with the reading of classics. One unit.

## II. *Elementary Algebra*

The four fundamental operations, factoring, highest common factor, lowest common multiple, fractions (including complex fractions), both numerical and literal linear equations of one or more unknown quantities, problems depending upon linear equations, radicals, exponents (including fractional and negative), ratio and proportion, quadratic equations, properties of quadratics, simultaneous quadratic equations, problems depending upon quadratic equations, the binomial theorem for positive integral exponents, arithmetic and geometric progressions. One and one-half units.

## III. *Plane Geometry*

The whole of Plane Geometry as given in such texts as those of Wentworth, Wells, Phillips and Fisher, Beman and Smith, or McMahon. The student must be able to construct diagrams and make fundamental constructions quickly and accurately, and to prove all central theorems, giving the reason for each statement made and going back step by step until the final ground of the statement is reached in a definition, an axiom or a postulate. Much attention should be given to the proof of original propositions and the solution of numerical problems. One unit.

## IV. *Solid and Spherical Geometry*

The propositions given in the texts mentioned above, to-

gether with the solution of numerous originals, both theorems and numerical problems. One-half unit.

### V. *Plane Trigonometry*

As given in the texts of Murray, Lyman and Goddard, Wentworth, Wells, Phillips and Strong, or a full equivalent. One-half unit.

### VI. *Latin*

1. Grammar and Prose Composition. Translation into Latin of simple English sentences. One unit.

2. Caesar, Gallic War, Books I-IV, with questions on forms, the constructions and subject-matter. One unit.

3. Vergil, Aeneid, Books I-VI, with questions on the constructions subject-matter and prosody. One unit.

4. Cicero, Six Orations, with Prose Composition continued. One unit.

### VII. *Greek*

Xenophon. Anabasis. Books I, II, III, IV.

Grammar. Goodwin or equivalent. A knowledge of Attic inflection and of the principles of syntax is essential.

Prose Composition. Collar and Daniell or equivalent. Ability to put English into Greek, *with accent*, is necessary. Two units.

### VIII. *German*

The requirements for entrance into the Freshman Class in this subject correspond to those of the majority of the better institutions of the country, as they have been suggested by the Modern Language Association of America.

The examination will be upon the following subjects, and presupposes the reading of two hundred duodecimo pages of easy prose.

1. *Grammar*. A thorough knowledge of the forms, and familiarity with the commoner usages of syntax.

2. *Composition.* The ability to translate simple English sentences into idiomatic German.

3. *Reading.* The candidate will be asked to translate at sight a German selection containing no unusual words.

4. *Pronunciation.* The reading aloud of ten lines of easy prose.

The department would call the attention of teachers to the excellent report of the "Committee of Twelve" of the Modern Language Association, which contains a full discussion of the methods, outline of courses, etc., and which will be sent by the Department upon receipt of twenty cents to all teachers desiring a copy.

The importance of a thorough knowledge of the rudiments of the grammar, as contained in Bierwirth's or Vos' Essentials of German Grammar, cannot be too severely insisted upon. The work should comprise: (1) Careful drill upon pronunciation. (2) The memorizing and frequent recitation of easy colloquial sentences. (3) Drill upon the inflection of the articles, of such nouns as belong to the language of every-day life, of adjectives both strong and weak, pronouns, weak verbs and the more usual strong verbs, such as *gehen, sprechen, finden, sehen, kommen, fahren*, etc., also upon the use of the more common prepositions, the simpler uses of the modal auxiliaries, and the elementary rules of syntax and word order. (4) Abundant easy exercises for the purpose both of fixing in the mind the forms and principles of grammar and to cultivate readiness in the reproduction of natural forms of expression. This includes the ability to read and write German script. (5) The reading of two hundred pages of easy prose, with constant practice in translating into German easy variations upon the sentences read or the reproduction of the sentences from memory. The necessary reading matter may be found in any standard graduated reader, or in such stories as Storm's *Immensee*, Gerstacker's *Germelshausen*, or similar text. Two units.

#### IX. *French*

(1) Translation of ordinary simple French prose into idiomatic English. It is believed that the ability to translate sim-



ple prose can be acquired by careful reading of not less than three hundred and fifty duodecimo pages chosen from the works of several authors. (2) Translation of simpler English sentences into French. This requirement presupposes careful training in elementary French grammar. This includes the conjugations of regular verbs, of the more common irregular verbs, such as voir, dire, tenir, aller, savoir, faire, pouvoir, as well as the classes represented by connaître, conduire, dormir, ouvrir, craindre; the inflection of nouns and adjectives for gender and number, except rare cases; uses of articles and partitive construction; the forms and positions of the personal pronoun, the uses of other pronouns and of interrogative, possessive, and demonstrative adjectives. (3) The ability to pronounce French with a fair degree of accuracy. One unit.

#### X. *Advanced German, French and Spanish*

Candidates for the higher classes than the Freshman in German and those who desire advanced credits in French and Spanish are required to stand an examination on all the work previously done by the class which they desire to enter. The attention of teachers in High Schools is called to the fact that examinations for advanced standing in all courses in this department include the history of the country whose language is being studied as contained in any of the volumes of "History of the Nations Series" (Putnam) or works of like scope. The entrance examination in second year Spanish includes the History of the Moors in Spain.

#### XI. *History and Civil Government*

Any one of the four following courses may be presented:

(1) Ancient History, with special reference to Greek and Roman history, and including the chief events of the Middle Ages to the death of Charles the Great (814). One unit.

(2) English History, the equivalent of a course based on Montgomery's *Leading Facts of English History*. One unit.

(3) American History, the equivalent of a course based on such a manual as Fiske's or Larned's *History of the United States*. One unit.



(4) Civics. A good knowledge of the origin, principles, forms and powers of the national, state and local government is required. Fiske's *Civil Government* is suggested as a text. One-half unit.

## XII. Science

(1) Physical Geography—as much as is contained in Appleton's or Guyot's *Physical Geography*. One-half unit.

(2) Physiology—as much as is contained in the briefer course of Martin's *Human Body*, or in Walker's or Foster and Shore's *Physiology*. One-half unit.

(3) Elementary Physics—embracing mechanics, sound, heat, light and electricity, with laboratory work. One unit.

Not less than six school periods a week for one year should be given to the subject. The course should be based upon a set of laboratory experiments performed by the pupils individually. The original note-book in which the student recorded the steps and results of his experiments, with the endorsement of his teacher certifying that the notes are a true record of the pupil's work, must be presented. The recitations should be on the laboratory exercises, and some elementary text book. Schools without a supply of elementary apparatus sufficient for individual experimenting should not undertake to meet this requirement.

(4) Elementary Botany—the equivalent of Bergen's *Elements of Botany* or Coulter's *Plant Relations*, with laboratory work on the anatomy and physiology of the higher plants. One-half unit.

(5) Zoology—the equivalent of Kellogg's *Elementary Zoology*, or Davenport's *Introduction*, with laboratory or field work. One-half unit.

(6) Elementary Chemistry—the equivalent of Remsen's *Elements of Chemistry*. One unit.

All applicants will be required to present for examination their original notes of laboratory work, together with the annotations and certificate of the instructor, who should insist on careful manipulation and correct annotations.

### XIII. *Drawing*

Candidates must submit a complete set of drawings, made under the supervision of a teacher of drawing and properly certified by him. These drawings should show ability in the candidate to execute plain lettering, to make orthographic sketches of machine parts, and orthographic projection. One-half unit.

### XIV. *Shop Work*

Thorough manual training in wood work and machine tool work. A note-book containing description and sketches of work done is required. One-half unit.

## DEFECTIVE PREPARATION

In view of the fact that many High Schools and Academies, naturally tributary to the College, do not fully prepare their graduates to meet the requirements for admission to a College of so high a grade, special arrangements are made by which this preparation may be supplemented. Students are admitted to College provided they have at least twelve units credit, and by taking extra studies these deficiencies can be made up in the first two years.

## ADVANCED STANDING

Candidates for advanced standing are examined, in addition to the studies required for admission, in those which have been pursued by the class which they propose to enter or in others equivalent to them. Only in exceptional cases will certificates from secondary schools be accepted for studies which are offered for advanced standing. In no case will such credits be allowed until passed upon by the Faculty Committee on Undergraduate Studies.

Those who have been members of other colleges must present certificates of regular dismission, and they will be given credit for the studies pursued. Those bringing letters of dismission from colleges having the same or equal requirements for admission with Centre College and which offer the same

or equal courses of study, will be admitted without examination, to the same standing as they have held in the institution from which they come.

No student will be admitted as a candidate for a college degree later than the beginning of the Junior year, except that one coming with proper dismissal from another institution of similar grade may be received not later than the beginning of the Senior year.

### ADMISSION OF SPECIAL STUDENTS

Mature persons of good character who desire to pursue some special subject and who have had the requisite preliminary training are allowed to enter the various courses of study in the College without becoming candidates for a degree. Special students are subject to the same regulations regarding attendance and examinations as candidates for degrees; they must take fifteen hours of class-room work a week unless satisfactory reasons for a smaller assignment are presented.

# REQUIREMENTS FOR DEGREES

## Requirements For the Degree of Bachelor of Arts

The degree of Bachelor of Arts will be conferred upon the candidate who has completed 200 term hours work, including all the required studies of Course A, the Classical Course, or of Course B, the Modern Language Course, according to the following exhibit:

### Course A—Classical

#### Freshman Year

##### Required Studies

				For descrip'n see	
				Page	Course Number
Latin .....	3	3	3	75	130-134
Greek.....	3	3	3	71	91-93
English.....	3	3	3	68	60-62
Mathematics.....	3	6	3	77	150-152
Chemistry	} One.....	3	3	64	30-32
Physics				88	230-232
Biblical Literature.....			3	60	1
History.....	3			73	111
Hygiene.....				87	229
	18	18	18		

### Sophomore Year

##### Required Studies

Latin.....	3	3	3	76	135-139
Greek.....	3	3	3	71	94-96
English.....	3	3	3	69	63-66
Biblical Literature.....			3	60	2
History.....	3	3		73	112
	12	12	12		

## Elective Studies

	For descrip'n see	
	Page	Course Number
Mathematics.....	78	153-157
Physics.....	88	230-235
Chemistry.....	64	30-36
Biology.....	61	10-13
German.....	80	170-172
French.....	83	186-188

## Junior Year

## Required Studies

Philosophy.....	4	4		86	220, 222
Biblical Literature.....			3	60	3
	4	4	3		

## Elective Studies

English.....	69	66-70
German.....	80	170-175
French.....	83	186-192
Greek.....	72	97-99
Latin.....	76	140-143
Surveying.....	79	164
History.....	73	113-118
Physics.....	89	230-238
Chemistry.....	65	30-39
Biology.....	61	10-16
Philosophy.....	86	221
Mathematics.....	78	153-159

## Senior Year

## Required Studies

Economics.....	3	3	3	91	250-252
Philosophy of Religion.....	2			87	227

Elective Studies

	For descrip'n see	
	Page	Course Number
Greek.....	72	100-103
Latin.....	76	140-146
German.....	81	170-180
French.....	83	186-194
Spanish.....	84	193-198
Italian.....	85	198-204
English.....	70	71-75
History.....	74	113-118
Sociology.....	92	254
Philosophy.....	87	222-225
Mathematics.....	78	153-162
Astronomy.....	79	163
Chemistry.....	67	30-39
Physics.....	89	230-242
Biology.....	62	10-18
Geology.....	64	20-22
Business Law.....	92	253

Course B—Modern Language  
Freshman Year

Required Studies

Latin.....	3	3	3	75	130-134
German.....	3	3	3	81	173-175
English.....	3	3	3	68	60-62
Mathematics.....	3	6	3	77	150-152
Chemistry	} One.....	3	3	65	30-32
Physics				88	230-232
History.....	3			71	111
Biblical Literature.....			3	60	1
Hygiene.....				87	229
	18	18	18		

## Sophomore Year

## Required Studies

	Hours a week			For descrip'n see	
	Term 1	Term 2	Term 3	Page	Course Number
French.....	3	3	3	83	186-188
German.....	3	3	3	81	176-178
English.....	3	3	3	69	62-65
Biblical Literature.....			3	60	2
History.....	3	3		73	112
	<u>12</u>	<u>12</u>	<u>12</u>		

## Elective Studies

Mathematics.....	78	153-157
Physics.....	89	230-236
Biology.....	61	10-13
Chemistry.....	65	30-35
Latin .....	75	135-139
Greek.....	71	90

## Junior Year

## Required Studies

Philosophy.....	4	4		8	220, 222
Biblical Literature.....			3	60	3
	<u>4</u>	<u>4</u>	<u>3</u>		

## Elective Studies

English.....	69	66-70
German .....	82	179-180
French.....	83	186-192
Greek.....	71	90
Latin.....	76	140-143
History.....	74	113-118
Philosophy.....	86	221
Physics.....	89	230-238
Chemistry.....	65	30-39
Biology.....	62	10-16
Surveying.....	79	164
Mathematics.....	78	153-162



Senior Year

Required Studies

	Hours a week			For descrip'n see	
	Term 1	Term 2	Term 3	Page	Courses Number
Economics.....	3	3	3	91	250-251
Philosophy and Religion....	2			87	227

Elective studies. For departments, consult electives of the Senior year, Course A, Page 53.

Requirements for the Degree of Bachelor of Science

The Degree of Bachelor of Science will be conferred upon the candidate who has completed 200 term hours work, including all the required studies of Course C, the Scientific Course, according to the following exhibit:

Course C—Scientific

Freshman Year

Required Studies

German.....	3	3	3	81	173-175
English.....	3	3	3	63	60-62
Mathematics.....	3	6	3	77	150-152
Drawing.....	3	3	3	67	50
Biology....	3	3	3	62	10-13
Physics....				88	230-232
Chemistry..				64	30-32
Biblical Literature.....			3	60	1
History.....	3			73	111
Hygiene.....				87	229
	18	18	18		

## Sophomore Year

## Required Studies

	Hours a week			For descrip'n see	
	Term 1	Term 2	Term 3	Page	Course Number
French.....	3	3	3	83	186-188
English.....		3	3	69	64-65
Chemistry.....				65	30-36
Physics } Two.....	6	6	6	89	230-235
Biology }				61	10-15
Mathematics.....	6	4	4	78	153-156
History.....	3	3		73	112
Biblical Literature.....			3	60	2
	<u>18</u>	<u>19</u>	<u>19</u>		

## Junior Year

## Required Studies

Chemistry.....	3	3	3	65	33-36
Physics.....	3	3	3	89	233-238
Philosophy.....	4	4		86	220, 222
Biblical Literature.....			3	60	3
	<u>10</u>	<u>10</u>	<u>9</u>		

Elective Studies. For departments, consult electives of the Junior year, Course A, page 52.

## Senior Year

## Required Studies

Economics.....	3	3	3	91	250, 251
Philosophy of Religion.....	2			83	227

Elective Studies. For departments, consult electives of the Senior year, Course A, page 53.

### Regulations Governing Elective Courses

1. *Group Electives.* During the Sophomore, Junior and Senior years, each student in Courses A and B must complete at least one nine-hour course in two Departments of Group I, and one nine or twelve-hour course in two Departments of Group II.

#### GROUP I

Language and Literature

English

German

Greek

Latin

Romance Languages

#### GROUP II

Mathematics and Science

Biology

Chemistry

Physics

Mathematics

2. *Free Electives.* The required studies and group electives of Courses A and B together average about 145 hours of work. The student takes the remaining hours in free electives. Any subject open to an undergraduate student may be taken as a free elective, provided the student's previous work qualifies him to pursue the subject and the schedule permits. All the electives of Course C are free electives.

3. An elective course requiring a year for its completion cannot be dropped. Credits for such a course depend on its being carried through the year.

4. Generally, an elective course will not be given unless chosen by five or more students. This, however, will be optional with the Professor in charge of the Department.

### Requirements for the Degree of Master of Arts

Bachelors of the several courses of the academic department of Centre College of Central University of Kentucky, or graduates of other institutions having requirements for the baccalaureate degree which are substantially equivalent, may be enrolled in the Graduate Department as candidates for the degree of Master of Arts.

Application for enrollment must be made in writing to the

Committee on Graduate Studies not later than October 1st of the collegiate year in which the degree is to be taken. In case the degree is not conferred after one year of study a second notice must be filed with the Committee three months before the second examination, accompanied by a fee of \$25.00, unless this be in the case of a fellow who has been allowed to extend his course over two years.

With the application an outline of the candidate's intended course of graduate study must be submitted together with the signed approbation of the professors with whom he expects to work. This choice of subjects is final.

The tuition fee of the Graduate Department is \$100.00, payable in advance in three installments at the opening of each term. In addition a diploma fee of \$10.00 is charged, payable when the Thesis is submitted for examination.

The degree of Master of Arts will be conferred upon those candidates who, having complied with the above requirements, shall have completed the required graduate work as follows:

1. They shall have completed to the satisfaction of the professors in charge a course of graduate study, which is the equivalent of fifteen hours of class work a week.

2. This course shall be pursued at this College during a residence of not less than one collegiate year. Work "in absentia" will not be recognized towards a degree.

3. This course of study shall consist of a principal subject (Major) and a subsidiary subject (Minor).

4. The Major and the Minor subjects must be chosen with the consent of the Committee on Graduate Studies, in different but related departments.

5. The courses must be of an advanced character and the work done by a candidate show zeal and ability. No subject counted for the baccalaureate degree or towards a professional degree will be counted for the Master's Degree.

6. Of the fifteen hours of required work a week, five hours shall be devoted to the minor subject.

7. Not later than one month before Commencement the candidate must submit to the Committee on Graduate Studies a thesis approved by the professor in charge of the major course.

8. The candidate's thesis having been approved by the Committee, he must pass a satisfactory examination before a board of three examiners, consisting of the professors in charge of the candidate's major and minor subjects and a representative of the Committee on Graduate Studies. The signatures of the three members of the examining board must appear on the report of the examination to the President of the University.

9. Before the successful candidate receives his diploma he must deposit in the University Library a typewritten copy of his thesis, properly bound.

# COURSES OF INSTRUCTION

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## I. BIBLICAL HISTORY AND LITERATURE

PRESIDENT HINITT, DR. McDOWELL, PROFESSOR REDD, PROFESSOR  
THOMAS

### 1. *The Gospels*

An inductive study of the life of Christ. Texts, the Revised Version and Stalker's *Life of Christ*.

### *The Pauline Epistles*

A study of several of the epistles. Stalker's *Life of Paul*. Three hours, third term, Freshman year.

### 2. *Old Testament History*

The general course of the political, social and religious history of the Hebrews. Texts, the Revised Version and Blaikie's *Manual of Bible History*. Three hours, third term, Sophomore year.

### 3. *The Bible as Literature*

A study of the general literary structures as narrative, wisdom, oratory, lyric and dramatic poetry, prophecy. Text, Moulton's *The Literary Study of the Bible*. The Revised Version. Three hours, third term, Junior year.

### 4. *New Testament Greek*

This course is offered specially to those students who expect to prosecute the study still further in theological seminaries. Three hours, Senior elective.

### 5. *Philosophy of Religion*

See statement under Department of Philosophy. Two hours, first term, Senior year.

### 6. *Seminary of Religious Problems*

Lectures and discussions. The purpose of the course is to bring to the attention of students the aspects of religious truth that are prominent to-day, both theoretical and practical, and various problems of Christian thought of present interest. Such topics as the following will be considered:

- (1) What is Religion?
- (2) Religion and Life.
- (3) The Social Teachings of Christ.
- (4) Christianity and Modern Social Problems.
- (5) What Ideas Christianity used to Conquer the Ancient World.
- (6) Modern Missions and Social Progress.
- (7) The Great Religions of the World.
- (8) The Supremacy of Christianity.
- (9) Is There a Conflict between Science and Religion?
- (10) The Influence of Philosophy on Religion.
- (11) The Influence of Philosophy on the Christian Religion.
- (12) The Psychology of Religion.
- (13) Religious Education.
- (14) What Think ye of Christ?
- (15) The Full Meaning of Discipleship.
- (16) The Obligation of the Educated Christian to the World of To-day.

These topics are suggestive and will be extended or varied under the development of the course.

Elective for Sophomores, Juniors and Seniors. One hour, first and second terms.

## II. BIOLOGY AND GEOLOGY

PROFESSOR RAINEY, MR. CASSIDAY

### 10. *General Biology*

A study of the morphology and physiology of typical spermatophytes, followed by a comparative study of the fern, moss-



plant, liverwort and several algæ. Laboratory work and lectures. Three hours, first term.

11. *General Biology*

A continuation of Course 10. During this course, special emphasis will be laid on the properties and functions of living organisms, both plant and animal. The frog will be dissected in the laboratory. Lectures, laboratory work and assigned readings. Three hours, second term.

12. *General Biology*

Continuation of Courses 10 and 11. A comparative study of typical invertebrates, (crayfish, grasshopper, clam, earthworm, hydra, protozoa, etc.), will be made in the laboratory, accompanied by lectures and assigned readings on classification. Some time is given to the economic aspects of the subject. Three hours, third term.

13. *Comparative Anatomy of the Vertebrates*

Careful dissection of the dogfish and necturus. Laboratory practice and assigned readings, accompanied by informal lectures. Three hours, first term.

14. *Comparative Anatomy of the Vertebrates*

Continuation of Course 13. In this Course the study of vertebrate structure is continued in the dissection of the turtle and pigeon. Laboratory practice and assigned readings. Three hours, second term.

15. *Mammalian Anatomy*

The dissection of the cat, or rabbit. The course follows in logical sequence to Courses 13 and 14. Three hours, third term.

16 (a) *Bacteriology*

A general course in the study of bacteria. The preparation of culture media and the general morphology and physiology of the schizomycetes. This will be followed by the study of patho-

genic forms and the quantitative and qualitative bacteriological examination of water and milk. The close relationship of the subject to sanitary science will receive attention as well as its other economic phases. Three hours, first term.

16 (b) *Bacteriology*

A continuation of 16 a. Three hours, second term.

16 (c) *Bacteriology*

A continuation of 16 b. Three hours, third term.

17 (a) *Histology*

In this course special attention will be given to the technique of microscopical preparations, including the fixing, imbedding, sectioning, staining the mounting of animal tissues. A study will be made of the cellular structure of the elementary tissues. Emphasis is placed on the drawings of the tissues studied. Laboratory work with assigned readings. Three hours, first term.

17 (b) *Histology*

A continuation of 17 a. Three hours, second term.

18. *Embryology*

In this course the development of the organism is traced in the egg. Questions of heredity and the comparative embryology of the human body are touched upon. Courses 17a and 17b are prerequisite to this course.

19 (a) *Physiology*

The chemical aspect of physiology is treated in this course. The chemistry of proteids, carbohydrates and fats and of the various secretions of the body are studied. Lecture and laboratory work. Three hours, first term.

19 (b) *Physiology*

Continuation of 19a. The subjects considered especially in this course are, muscle and nerve reactions, circulation, respiration, digestion and nutrition. Lectures and laboratory work. Three hours, second term.

19 (c) *Physiology*

Continuation of 19b. Central nervous system, special senses and reproduction are considered. Three hours, third term.

20. *Dynamical Geology*

Study of the agencies and processes at work in the past; methods of investigation; theories of earth's origin critically examined. Three hours, Senior elective.

21. *Structural Geology*

Earth's form; sedimentation and stratification; conformity and unconformity; volcanoes; earthquakes; fractures and veins; mountain making. Three hours, Senior elective.

22. *Historical Geology*

Course will cover the whole subject with especial reference to the Trenton, Devonian and subcarboniferous as represented in this vicinity. Three hours, Senior elective.

## III. CHEMISTRY

PROFESSOR CLARK, MR. HESS

In addition to the regular fee, which is demanded of students in all laboratory courses to cover general wear of the laboratory appliances, water and gas, a special deposit of two dollars is required of each student of Chemistry. This sum is to compensate the department for breakage that may be incurred during the year. Settlement is made at the end of the college year or at such time as the student may finish or discontinue his work.

30. *General Chemistry*

Required of all candidates for a degree in Course C, and for all engineering courses; elective in Courses A and B. Through experimental lectures, laboratory work and recitations, the student begins the study of simple chemical phenomena and laws of the science. From the beginning of the work the laboratory method of instruction is emphasized. The study of the so-

called non-metals will occupy the whole of the term. Three hours, first term.

31. *General Chemistry*

Prerequisite 30. This course is a continuation of Course 30. The study of the non-metals will be continued, and, if possible, completed, during the latter portion of the term. An increasing amount of laboratory work will be required as the term progresses. Three hours, second term.

32. *General Chemistry*

Prerequisites 30, 31. At this time the laboratory method of instruction becomes by far the most important part of the work, consuming, at times, as much as three-fourths of the time allotted. The work of the second term (Course 31) is continued. Elementary qualitative chemical analysis is here introduced. Each student is required to familiarize himself with the commoner methods employed in detecting pure chemical compounds in solution.

If there is time available at the end of the term a series of lectures, about ten in number, will be given along the lines of organic chemistry. Three hours, third term.

33. *Inorganic Preparations*

Prerequisites 30, 31. Required of all candidates for scientific degrees. This course will be run in connection with Course 32. The student is required to study by means of laboratory practice, the various methods employed in the preparation of pure compounds, from the standpoint of the chemist; to prepare a number of compounds, which are of commercial importance. At all phases the practical side of the work is emphasized, and, when possible, the laboratory operations will follow the lines of important industrial processes. Three hours, third term.

34. *Qualitative Analysis*

Prerequisites 30, 31 and 32. Required of chemical engineering students; General Science students may choose between this and Course 43. This is essentially a laboratory course, comprising a systematic qualitative study of both basic and acid forming ele-

ments, and, in every connection, is to be considered as a continuation of the work begun in Course 32. As soon as a fair knowledge of the action of pure chemical compounds is acquired, the student is taught to apply such knowledge to the analysis of unknown solutions.

After the end of the first six weeks of the term, the nature of the work is changed. For the so-called wet method of analysis, the dry is substituted. The student is required to identify about forty chemical products, through the use of the blow-pipe, and such other appliances as are called for in such work.

From time to time the laboratory work will be supplemented by lectures and recitations dealing with certain historical and theoretical considerations, which naturally present themselves. Three hours, first term.

### 35. *Quantitative Analysis*

Prerequisites 30, 31, 32. Required of students in chemical engineering; students in Course C can choose between this course and the course in organic chemistry. (See Courses 34 and 43.) This course is designed to familiarize the students with the principles of elementary chemical analysis, from a quantitative point of view. The gravimetric method will occupy the whole of the time available. Lectures and recitations will accompany the laboratory work. Three hours, first term or second term.

### 36. *Quantitative Analysis*

Prerequisite 35. The work begun in the preceding course will be continued. Volumetric chemical processes will receive attention. See chemical engineering course for outline of work in quantitative analysis. Three hours, second or third term.

### 37. *Organic Chemistry*

Prerequisites 30, 31, 32. Elective in all courses except chemical engineering; can be substituted for 34-36 in Course C. During the time allotted to this course the student will take up a systematic study of the compounds of carbon, presented through lectures, recitations and laboratory instruction. Certain compounds, representative of the several series, will be prepared and

their purity tested. This course is especially recommended to those contemplating the study of medicine. Three hours, first term.

38. *Organic Chemistry*

Prerequisite 37. As a continuation of Course 37, laboratory work will predominate over lecture and recitation instruction during the latter portion of term. Three hours, second term.

39. *Organic Chemistry*

Prerequisite 38. The work follows the work of Course 38. For the Pre-Medical students, the preparation work will include many products of value to the profession; the technical student will make organic preparations of more general interest. Some work in the ultimate analysis of organic compounds will be done during the latter portion of the term. Three hours, third term.

The courses in Chemical Engineering, outlined on pages 115-117 are open to Juniors and Seniors whose preparation is adequate.

#### IV. DRAWING

ASSISTANT PROFESSOR FARWELL

50. *Elementary Mechanical Drawing*

This course embraces (a) instruction in the use of instruments and practice in straight and curved line work; (b) a thorough and systematic study of free hand lettering; and (c) the graphical solution of geometrical problems, the mechanical drawing of standard fastenings and parts of machines, and practice in shading, tinting and tracing.

51. *Descriptive Geometry and Elementary Machine Design*

The course in Descriptive Geometry includes the discussion of descriptive geometrical problems in the class room, and the graphical solution of such problems in the drawing room. The Elementary Machine Design will embrace a study, both in recitation and drawing room, of the design of the more elementary portions of machines, both by theoretical calculation and empirical design.

### 52. *Machine Design*

A continuation of the elementary design taken up in Course 51, advancing to a more thorough and detailed study of all parts of machines, theoretically and practically, including the design of parts of dynamos, motors and electrical mechanism.

### 53. *Mechanism*

Study of typical mechanisms and mechanical movements and kinematic principles involved in laying out such mechanisms.

## V. ENGLISH LANGUAGE AND LITERATURE

PROFESSOR THOMAS, MR. McELROY

The department of English offers courses in English composition and rhetoric, in the historical study of the English language, and in English and American literature. These courses seek to develop a love of literature and a genuine appreciation of the scholarly spirit in literary work. The English classes are planned to encourage a student to read for himself, to give him broader views of the range of literary study, and to enable him to pursue specifically the study of some particular literary topic or period, or to follow in detail the development of some special category of literature.

### 60. *General Composition*

A practical course in writing, intended to teach correctness and clearness of expression, and to give practice in each of the prose forms. Semi-weekly compositions. Regular appointments for individual criticism. Analysis of prose specimens. Impromptu writing in class once a fortnight. Outside readings in the works of standard writers.

*All new students are expected to take this course* unless there should be the clearest evidence of previous special preparation and attainment in the subject. Work done in English composition for entrance credit is in no way an equivalent of this course. Three hours, first term, Freshman year. Required of all students.



61. *General Composition*

Continuation of 60. Three hours, second term, Freshman year. Required of all students.

62. *General Composition*

Continuation of 60. Three hours, third term, Freshman year. Required of all students.

63. *General History of English Literature. From the Beginnings to Milton*

This course (in connection with 64 and 65) gives a survey of the development of English literature from *Beowulf* to Tennyson. The work consists of the study of representative classics with lectures explanatory of their historical connection. Each student will also be required to hand in a fortnightly essay, and to keep appointments for criticism. Three hours, first term, Sophomore. Required of students in Courses A and B.

64. *General History of English Literature. From Milton to Wordsworth*

Continuation of 63. Three hours, second term, Sophomore year. Required of students in Courses A, B, and C.

65. *General History of English Literature. From Wordsworth to Tennyson*

Continuation of 63. Three hours, third term, Sophomore year. Required of students in Courses A, B and C.

66. *The Romantic Movement in English Poetry*

Lectures on the poetry of the period. Study of the poems of Wordsworth, Coleridge, Byron, Shelley, and Keats. Three hours, first term, Junior elective.

67. *Public Speaking*

The construction and the delivery of speeches. Study of the various types of orations with analysis of representative examples. Three hours, second term, Junior-Senior elective. Not given 1910-11; alternates with 68.

68. *Argumentation and Debate*

The principles of argumentation, regular practice in debating, and submission of briefs and written arguments. Three hours, second term, Junior-Senior elective. To be given in 1910-11 in place of 67.

69. *Old English*

The Grammar; selected readings in prose and poetry. Three hours, third term, Junior elective.

70. *Shakespeare*

Shakespeare's life and times, his personality, and the development of his art. The study of six representative dramas chosen to illustrate successive stages in the playwright's development. Three hours, first term, Senior elective.

71. *Elizabethan Literature Exclusive of Shakespeare*

Lectures on the period. Reading and study of the *Fairie Queen* (Bk. I.) some of the lyrical poetry of the period, and three or four selected plays. Three hours, second term, Junior-Senior elective. Not given 1911-12; alternates with 72.

72. *Narration and Description*

Lectures and practice in writing. Exercises in these two forms of discourse and in the short-story. Three hours, second term, Junior-Senior elective. Not given 1910-11; alternates with 71.

73. *American Poetry*

The leading American poets of the Nineteenth Century taken in chronological order. Reading of selections from their works, and defining of the contribution of each to American literature. Three hours, third term, Senior elective.

## VI. GREEK

## PROFESSOR REDD

In this department the aim is to enable the student to acquire such a knowledge of the language as is essential to a liber-

al classical education. Stress is not only placed upon a careful study of the Greek language, its forms and syntax, but also upon the ancient Greek literature, its unity and originality, and the development, relationship and characteristics of its successive periods. Written examinations on Greek history and other subjects connected with Greek life are held each month.

90. *Elementary Course*

This course is offered to those students who have not studied Greek, and yet desire to take the classical course. An opportunity will thus be offered them to make up the entrance requirements. The work will be equivalent to the requirements for admission to the Freshman class.

91. *Lysias*

Five orations. Weekly exercises in translating from English into Greek, and monthly examinations in Greek history. The grammar is carefully reviewed and the general principles of syntax are applied to class reading. Three hours, first term, Freshman year.

92. *Herodotus*

Book VI. Weekly exercises in Greek prose composition, and monthly examinations in Greek history. Grammar; syntax studied and discussed. Three hours, second term, Freshman year.

93. *Homer's Iliad or Odyssey*

Four books. Grammar; prose composition and history continued. Seymour's *Language and Verse of Homer*; Jebb's *Introduction to Homer*. A study of Epic and Ionic literature. Three hours, third term, Freshman year.

94. *Plato's Apology and Crito*

A brief sketch of Greek philosophy. Syntax, prose composition and history continued. Three hours, first term, Sophomore year.

95. *Euripides*

(One play.) A study of the Greek theater, and the origin and development of the Greek drama. Metrical analysis of the play. Syntax, prose composition and history continued. Three hours, second term, Sophomore year.

96. *Aeschines against Ctesiphon*

A study of the Attic orators, and of the social and political life of the Greeks. Syntax, prose composition and history continued. Three hours, third term, Sophomore year.

97. *Demosthenes on the Crown*

A careful analysis of the argument and structure of the oration. A study of the Macedonian influence and of Athenian politics. Goodwin's *Greek Moods and Tenses*. Prose composition. Three hours, first term, Junior elective.

98. *Sophocles' Antigone*

A study of Greek drama and its influence. Metrical analysis. Jebb's *Primer of Literature*; Haigh's *Attic Theatre*. Three hours, second term, Junior elective.

99. *A Tragedy of Sophocles or Euripides*

With metrical analysis. Study of Greek drama continued. Three hours, third term, Junior elective.

100. *Thucydides*

Goodwin's *Greek Moods and Tenses*. A study of the development of Greek history. Three hours, first term, Senior elective.

101. *A Tragedy of Aeschylus*

With metrical analysis. History of Greek literature. Moulton's *Ancient Classical Drama*. Three hours, second term, Senior elective.

102. *A Comedy of Aristophanes*

Special study of Greek comedy. Three hours, third term, Senior elective.

103. *Greek Literature*

A study of the masterpieces of Greek literature in English versions. This course will enable the student to appreciate the influence of Greek thought, Greek culture and Greek ideals upon the best in modern literature. A knowledge of the Greek language is not essential. Three hours, Senior elective.

104. *New Testament Greek*

This course is offered specially to those students who expect to prosecute the study further in theological seminaries. Three hours, Senior elective.

## VII. HISTORY

PROFESSOR THROCKMORTON, MR. MCCORD

111. *Industrial History of England*

The object of this course is to give the student a knowledge of the economic and industrial development of England and to serve as an introduction to the study of economics later in the course. Three hours, first term, Freshman required. Cheyney's *Introduction to the Industrial and Social History of England*.

112. *Mediaeval European History*

In this course is included a general outline of European history from the invasions of the Barbarians to the dawn of the Protestant Reformation, with particular attention to the Holy Roman Empire, the Papacy, the Crusades, the Revival of Learning and the Italian Renaissance. Through contact with the sources, the student is enabled to acquire knowledge at first hand, his interest is quickened, and he is encouraged to draw independent conclusions in regard to the great movements of the period. Three hours, first and second terms, Sophomore required. Robinson's *History of Western Europe, Part I*; Robinson's *Readings in European History, Vol. I*.

113. *The Renaissance and the Protestant Reformation*

This course is devoted to a study of the revival of learning and

of the arts in the later middle ages and to a careful consideration of the causes, progress and effects of the reformation movement. Three hours, Junior and Senior elective. Given during the first term 1909-10, and every second year thereafter, alternating with course 116. Johnson's *Europe in the Sixteenth Century*.

114. *The French Revolution*

This course includes a study of the system of absolute monarchy, of the various elements making for revolution, of the revolution proper, and of the Napoleonic era. Three hours, Junior and Senior elective. Given during the second term 1909-10, and every second year thereafter, alternating with course 117. Stephens' *Revolutionary Europe*. Readings.

115. *Modern Europe*

Attention is devoted chiefly to the political history of Europe since the fall of Napoleon, the readjustment of the European States, the progress of constitutional government and the rise of democracy. Three hours, Junior and Senior elective. Given during the third term 1909-10, and every second year thereafter, alternating with course 118. Phillips' *Modern Europe*.

116. *Constitutional History of England*

A careful study is made of the long period of the development of English political institutions, including the prerogatives of the Sovereign, the constitution and powers of Parliament, and the evolution of the Cabinet. Three hours, Junior and Senior elective. Given during the first term 1910-11, and every second year thereafter, alternating with course 113. Dale's *English Constitutional History*.

117. *American History to 1829*

The period of discovery and exploration is passed over rapidly, and a close study is made of the settlement and growth of the several colonies, their government, and their social and economic conditions. Attention is devoted to the causes, the difficulties, and the ultimate triumph of the American Revolution, the adoption of the Federal Constitution, the formation and

doctrines of political parties, and the growth of the country in territory and population. Lectures, essays and maps. Three hours, Junior and Senior elective. Given during the second term 1910-11, and every second year thereafter, alternating with course 114. Elson's *History of the United States*; Hodder's *Outline Maps*.

118. *American History from Jackson to Roosevelt*

The chief interest of this course centers in the critical changes in affairs wrought by President Jackson, the long agitation over the slavery question, secession, the Civil War, and the reconstruction of the Southern States. Lectures, essays and maps. Three hours, Junior and Senior elective. Given during the third term 1908-9, and every second year thereafter alternating with course 115. Elson's *History of the United States*; Hodder's *Outline Maps*.

## VIII. LATIN

### PROFESSOR CHEEK

130. *Selected Letters of Cicero*

Three hours, first term, Freshman year. Required of students in Courses A and B.

131. *Cicero's De Amicitia*

Three hours, second term, Freshman year. Required of students in Courses A and B.

132. *Horace's Odes or Satires*

Three hours third term, Freshman year. Required of students in Courses A and B.

133. *Latin Composition*

One hour, first and second terms. Required of students in Courses A and B.

134. *Roman History*

Through the year. Written examinations. Required of all students taking Freshman Latin.



135. *Livy*

Three hours, first term, Sophomore year. Required of students in Course A. Elective in Course B.

136. *Agricola of Tacitus*

Three hours, second term, Sophomore year. Required of students in Course A. Elective in Course B.

137. *Andria and Heauton Timorumenos of Terence*

Three hours, third term, Sophomore year. Required of students in Course A. Elective in Course B.

138. *Latin Composition*

One hour through the year. Required of all students taking Sophomore Latin.

139. *Roman History*

Through the year. Written examinations. Required of all students taking Sophomore Latin.

140. *Annals of Tacitus*

Three hours, first term. Junior elective for those having completed the Latin of the Freshman and Sophomore years.

141. *Satires of Juvenal*

Three hours, second term. Junior elective for those having completed the Latin of the Freshman and Sophomore years.

142. *Comedies of Plautus*

Three hours, third term. Junior elective for those having completed the Latin of the Freshman and Sophomore years.

143. *The Ethics of Cicero*

Three hours, first term, Senior elective for those having completed the Latin of the Freshman, Sophomore and Junior years.

145. *The Ethics of Cicero (continued)*

Three hours, second term, Senior elective. Parallel readings assigned.

146. *Poetry of the Augustan Age*

Three hours, third term, Senior elective. Reports to be made on assigned topics.

IX. MATHEMATICS AND ASTRONOMY

PROFESSOR CROOKS AND ASSISTANT PROFESSOR FARWELL

Courses 150-152 are required of every candidate for a degree. All courses offered by the department are open to any student who is prepared to take them, and are so arranged as to meet the needs of the student who is pursuing the study of mathematics merely as a discipline, or who is preparing for graduate work or to enter an engineering profession.

The supply of engineering and astronomical instruments belonging to the department includes transits, levels, compasses, sextants, a six-inch telescope, and other valuable instruments.

150. *Plane and Spherical Trigonometry*

Special emphasis is placed upon the general definitions of the functions, the relations of the functions, the reduction of trigonometric identities, the solution of trigonometric equations, and the development of formulæ. Much time is devoted to the solution of both plane and spherical triangles. Three hours, first term. Required of all Freshmen.

151. *Algebra*

The subjects treated are undetermined coefficients, the binomial theorem for negative and fractional exponents, logarithms with applications, permutations and combinations, convergency of series, determinants, the theory of equations and the solution of numerical equations. Six hours, second term. Required of all Freshmen.

152. *Plane Analytic Geometry*

The course begins with the construction of many curves from their equations in order that the relation between the curve and its equation and the possibility of studying loci by means of their equations may be evident from the first. This is followed

by a study of the straight line, and conic sections, together with the solution of numerous exercises. The aim is to familiarize the student with the analytic method and its use in the discovery and demonstration of geometric properties of loci. Three hours, third term. Required of all Freshmen.

153. *Solid Analytic Geometry*

Coordinates and direction cosines, the plane, the straight line, quadric surfaces. Required of all students in scientific and engineering courses. Elective for other students who have completed Courses 150-152. Two hours, first term.

154. *Differential Calculus*

Differentiation of functions of a single variable, successive differentiation, expansion of functions, maxima and minima, indeterminate forms, differentiation of functions of several variables, tangents and normals. Four hours, first term. Required of all students in scientific and engineering courses. Elective for other students who have completed Courses 150-152.

155. *Differential and Integral Calculus*

A continuation of Course 154. Partial differentiation, asymptotes, contact and curvature, envelopes, and methods of integration. Four hours, second term.

156. *Integral Calculus*

A continuation of Course 155. Integration a process of summation, definite integrals, rectification of curves, areas, volumes, surfaces, successive integration. Four hours, third term.

157. *Differential Equations*

Ordinary Differential Equations. May be taken at the same time with Course 155 and '156 or after the completion of those Courses. Three hours, second and third term.

158. *Analytic Geometry of Two Dimensions*

An advanced course which must be preceded by Courses 153-157. Three hours, three terms.

159. *Advanced Calculus*

The general theorems of Leibnitz, Taylor, and Euler; and general methods of integration, definite integrals, and multiple integrals, with geometric applications. Three hours throughout the year. For both undergraduates and graduates.

160. *Analytic Mechanics*

Rest and motion; forces; static and kinetic measure of force; composition and resolution of forces; conditions of equilibrium; couples, their transformation and composition; center of gravity, examples involving single and double integration, rectangular and polar elements of mass; friction, with practical applications. Three hours, first term, Senior elective.

161. *Analytic Mechanics (continued)*

Virtual velocity; mechanical powers; machines; funicular polygon; catenary curve; falling bodies; attraction; curvilinear motion; projectiles. Three hours, second term.

162. *Analytic Mechanics (continued)*

Newton's laws of motion; central forces, with applications to astronomy; motion in a resisting medium; impact; work and energy; moment of inertia; rotary motion; motion of a system of rigid bodies in space. Three hours, third term.

163. *Astronomy*

This course is mainly descriptive and historical. Its purpose is to give the student a knowledge of the facts and principles of the science and make him acquainted with the instruments and methods by which they have been discovered and deduced. The recitations are supplemented by observations of the heavenly bodies. The student is also taught how to locate the principal stars and constellations. A knowledge of physics and trigonometry is essential. Three hours, two terms, Senior elective.

164. *Surveying*

Heights and distances; computation of areas; plotting and mapping; compass and transit surveying; stadia measure-

ments; laying out and dividing land; leveling; railway engineering; topographical surveying; plane table practice. Three hours, two terms, with necessary field work. Junior and Senior elective.

## X. MODERN EUROPEAN LANGUAGES AND LITERATURES

PROFESSOR BLAYNEY, MR. HAGER

MR. HENDRIE, *Assistant*

In the Modern Language reading-room adjoining the department recitation room in East Breckinridge Hall, the student will find ample facilities for investigative work. Large additions of valuable reference works have been imported during the past year. The reading room is also equipped with European daily, weekly and monthly newspapers and periodicals, both philological and literary. The student is thus afforded excellent opportunity to supplement his studies by putting himself in intimate touch with the march of modern European thought.

The department is equipped with a stereopticon and an unusually fine series of slides, and illustrated lectures will be given in the large department lecture-room, descriptive of the art and life of Germany, France, Italy and Spain.

During the past year a number of large and valuable reproductions of European works of art have been imported and placed upon the walls of the department.

### German Language and Literature

#### 170. *Elementary German*

Elements of the language. Translation of German into idiomatic English. Careful drill on pronunciation. Daily exercise in composition. Four hours, first term.

#### 171. *Elementary German*

Daily review of previous work, especially of the inflections. Daily but more limited exercise in composition. Reading outside the grammar begun. Memorizing of poems and colloquial

sentences. Special attention given to pronouns and verbs  
Four hours, second term.

172. *Elementary German*

Continuation of 170 and 171. Rapid reading for the purpose of equipping the student with an extended vocabulary. Review of grammar based on short daily exercises in composition. Easier syntactical problems mastered. Class criticism by students. Four hours, third term.

173. *Intermediate German*

Rapid reading of stories by Wildenbruch, Seume, Fulda, etc. Review of elements of grammar continued by daily composition. Introduction to abstruser problems of syntax. Three hours, first term.

174. *Literary German*

More difficult selections read—Heyse, Freytag, Dahn, etc. Sight reading. Memorizing. Composition. Syntax. Three hours, second term.

175. *Literary German (continued)*

Selections from Sudermann's *Katzensteg*, Rosseger's *Waldschulmeister*, Scheffel's *Ekkchard*, Freytag's *Soll und Haben*, etc. Sight reading. Composition. Three hours, third term. Collateral reading is required with Courses 173, 174, 175.

176. *Introduction to the Dramatists*

Freytag's *Die Journalisten*, Lessing's *Minna von Barnhelm*, Goethe's *Götz von Berlichingen*. Composition. Sight-reading. Three hours, first term.

177. *Classical Drama*

Rapid reading of the chief works of Schiller and Lessing. *Nathan*, *Emilia Galotti*, *Maria Stuart*. Collateral reading in Kluge's *Geschichte der Deutschen National-Literatur*, and in other works. Sight reading. Three hours, second term.

178. *Classical Drama (continued)*

*Wagnerian Operas. Die Jungfrau von Orleans; Deutsche Heldensage, Leben und Werke Richard Wagners.* Collateral reading in German. Three hours, third term.

179. *German Culture*

A study of the general tendencies in modern German life and thought considered in relation to medieval German culture. In this course the ability to speak German is required. Three hours, three terms.

180. *Medieval German Literature and Society*

The literature and social life of Germany in historic development. Lectures on the history of ancient civilization and its influence on German literature. Three hours, three terms.

181. *Das Niebelungen Lied und Die Blüte des ritterlichen und höfischen Epos*

Introduction to the Epics of the Middle Ages. Three hours, three terms.

182. *Griechische Literatur-Kunst-und Kulturgeschichte fuer Neuphilogen*

Dieser Kursus ist fuer diejenigen bestimmt, die sich eine allgemeine Kenntniss der Hauptmerkmale der griechischen Kulturgeschichte aneignen wollen aber kein Griechisch studiert haben, und setzt eine besondere Kenntniss der deutschen Sprache voraus.

A. Griechische Literatur-und Kunstgeschichte mit Benutzung von Curtius, "Griechische Geschichte," Luebke-Semrau, "Die Kunst des Altertums" u. s. w. First term.

B. Griechische Heldendichtung und Beredsamkeit; Homer, Demosthenes. Second term.

C. Das Griechische Drama; ausgewaehlte Dramen von Aristophanes, Sophokles und Euripides in Uebersetzungen. Third term.

For other courses open also to Seniors, see Graduate Courses.



## History of Art in Connection With Germanic and Romanic Philology

*History of Art* with special reference to the development of Art in Germany, France and Italy. Elective Senior Course. Three terms, two or three hours.

183. *Introduction to Ancient Art and its Influences on Medieval and Modern Art*

First Term. S. Reinach, *The Story of Art*.

184. *Introduction to Medieval and German Art*

Second term. S. Reinach (*idem*); Goodyear, *Roman and Medieval Art*.

185. *Introduction to Renaissance and Modern Art and its Influences on Germany and France*

Third term. Goodyear, *Renaissance and Modern Art*.

## Romanic Languages and Literatures

### FRENCH

186. *Elementary French*

Thorough drill on the elements of the grammar. Careful exercise in pronunciation. Daily exercise in composition. Dictation. Three hours, first term.

187. *Elementary French*

(Continuation of 184.) Grammar continued. Review work by means of daily graduated exercises in composition. Reading begun. Special attention given to the verbs. Memorizing of easy poems. Three hours, second term.

188. *Elementary French (continued)*

Rapid reading of easy prose. Grammar continued by means of composition work daily. Sight reading. Three hours, third term.

Courses 186, 187 and 188 are regularly supplemented by collateral reading and examinations.

189. *French Prose of the Nineteenth Century*

Dumas *père*. Mérimere, Michelet, Verne, Loti, etc. Grammar. Composition. Three hours, first term.

190. *French Literature of the Seventeenth Century*

Corneille, Racine, Molière, Bossuet, La Fontaine, Mme. de Sévigné, etc. Collateral reading. Three hours, second term.

191. *French Literature of the Eighteenth Century*

Voltaire, Diderot, LeSage, Rousseau, Montesquieu, etc. Parallel reading. Reports. Three hours, third term.

192. *The Sixteenth Century*

The period of transition. Marot, Ronsard, Rabelais, Montaigne and other representative writers of the Renaissance.

This and the two following courses are regularly supplemented by lectures throughout the year upon the development of the French language and upon the history of civilization with special reference to its influence upon the French language and literature.

193. *Contemporary French Literature*

Rapid reading from living authors. Large amount of parallel reading required.

194. *The Dawn of the Romantic Period*

Mme. de Staël, Chateaubriand. Lamartine, etc. Rapid reading of chief works. Collateral biographical reading.

*History of Art with special reference to its development in France*, see Courses 183, 184, 185.

## SPANISH.

195. *Elementary Spanish*

Grammar. Composition. Pronunciation. Two hours, first term.

196. *Elementary Spanish (continued)*

Grammar. Composition. Reading of easy prose begun. Two hours, second term.

197. *Elementary Spanish (completed)*

Rapid reading of more difficult prose by standard modern authors. Two hours, third term.

198. *Introduction to Spanish Prose Writers*

Rapid reading of more difficult prose—Valera, Galdos. Two hours, first term.

199. *Spanish Writers of the Nineteenth Century*

Alarcon, Pereda, Echegeray. Two hours, second term.

200. *Cervantes. Don Quixote*

Study of his life and works. Collateral reading and reports. Two hours, third term.

*History of the Spanish Literature.* This work must be done outside the class room and is controlled by monthly examinations.

*History of Art with special reference to the Saracenic Art of Spain,* see Courses 183, 184, 185.

## ITALIAN

201. *Elementary Italian*

Careful drill in grammar. Daily exercise in composition. Pronunciation. Two hours, first term.

202. *Elementary Italian (continued)*

Reading of easy prose begun. Grammar continued. Daily exercise in composition. Two hours, second term.

203. *Elementary Italian (Continuation of 202)*

More difficult prose rapidly read for the purpose of acquiring a working vocabulary. Grammar. Composition. Two hours, third term.

204. *De Amicis*

Rapid reading of his better works. Collateral biographical reading. Two hours, first term.

205. *Manzoni*

Selections from his chief prose works read. Parallel reading required. Two hours, second term.

206. *Goldoni*

His life and works. Class work, collateral reading, and reports. Two hours, third term.

## XI. PHILOSOPHY

## PRESIDENT HINITT

220. *Psychology*

An elementary course covering the main topics of the subject, sensation, perception, attention, association, reasoning, the self, emotion, instinct, volition, and serving as transition to philosophy. Four hours, first term. Required of Juniors.

221. *Logic*

The laws of thought. The problems, methods and principles of deductive and inductive logic. Two hours, first and second terms. Elective for Juniors and Seniors.

222. *Introduction to Philosophy*

The problems of philosophy. The main types of philosophical theory, idealism, realism, monism, dualism, rationalism, empiricism, criticism. The philosophical sciences. Four hours, second term. Required of Juniors.

223. *History of Philosophy*

I. From Thales to Plotinus. II. The rise and fall of Scholasticism. III. The development from Bruno to Nietzsche, with discussions on the philosophical thought and problems of the present. Four hours, first and second terms. Elective for Seniors and Graduates.

224. *Ethics*

An introductory course. Types of ethical theory. Discussion of practical problems. Two hours, first and second terms. Elective for Seniors.

225. *Modern German Philosophy*

Kant to Hegel. Readings from the three Critiques and other sources. Two hours, first term. Elective for Seniors and Graduates.

226. *Contemporary Problems in Philosophy*

Readings and discussions. Two hours, second term. Elective for Seniors and Graduates.

227. *The Philosophy of Religion*

The idea of God. The three great theistic religions. The theistic proof. Limits of theism. The ideal of religion. Two hours, first term. Required of Seniors.

## XII. PHYSICAL TRAINING AND HYGIENE

DR. COWAN, MR. BANKS

229. *Hygiene*

A course of lectures on the general principles of hygiene, the laws of health, the nature of disease, specific causes of disease, the prevention of disease, exercise as related to health, and other topics of importance at the pubertal age. One hour, first term. Freshman year.

DR. COWAN.

*Physical Culture.* The college gymnasium is thoroughly equipped in every particular. The apparatus is all of the best and comprises everything needful for indoor exercise. There are both shower and tub baths. The offices for the physical director are also located in the gymnasium building.

All exercising is done under the direct supervision of an experienced instructor, and the attempt is made to suit work to the special needs and limitations of individual students. In

cases of weak heart or disorder of any kind, due care is taken to prevent exertion that is too violent or improper in other respects.

Class exercise consists mainly of dumb-bell, Indian-club, and chest-weight movements, designed to bring all the muscles up to a symmetrical development. During the Winter term, when football, baseball, track athletics and tennis are out of season, gymnasium classes are held every afternoon. These classes are open to all.

MR. BANKS.

Field and track athletics are encouraged by the Faculty within proper limits, and the training is carried on under the direction of competent instructors. The athletic field is one of the best in the South.

The athletic work of the College, both outdoor and indoor, is under the charge of the physical director, and the rules for intercollegiate athletics are rigidly enforced.

### XIII. PHYSICS

PROFESSOR SMITH, ASSISTANT PROFESSOR FARWELL, MR. LEE

Physics or chemistry is required of all students in the classical and modern language courses through the Freshman year. In the succeeding years physics is elective in these courses. In the scientific and engineering courses it is a required study for one or more years as shown in the outlines of these courses. Courses numbered 230-232 constitute an elementary study of the subject. Students will be required to begin their college work in physics with Course 230, unless they have completed an elementary study of the subject of such extent and character as to enable them to take more advanced work with profit. Only in exceptional cases is college credit given for physics work that has been done in secondary schools.

#### 230. *Mechanics and Heat*

The laws of motion, properties of matter, mechanics of gases

and liquids, and heat. Recitations, laboratory, and lectures. Three hours, first term.

231. *Electricity and Magnetism*

The fundamental laws, illustrative phenomena and practical applications. Three hours, second term.

232. *Sound and Light*

A study of wave motion, the physical basis of music, and light. Three hours, third term.

233. *Mechanics and Heat*

A more extended study of the principles of mechanics and heat than is given in 230, with special attention to the mechanics of machines. Required of engineering students. Three hours, third term.

Courses 234-238 are of a more advanced character than the preceding. About one-half the time is devoted to a set of laboratory experiments, illustrative of fundamental principles and suitable for accurate measurements. Students electing these courses are required to have had trigonometry. Chemistry should be taken either before or at the same time with these courses.

234. *Mechanics and Molecular Physics*

A study of simple harmonic motion, rotational inertia, the theory of the pendulum, elasticity, surface tension and similar topics. Three hours, first term.

235. *Heat*

A study of thermometry, calorimetry and the fundamental principles of thermodynamics. Three hours, second term.

236. *Sound and Light*

The theory of wave motion; interference and diffraction of sound and light waves; measurements with the spectrometer, diffraction grating and polariscope. Three hours, third term.



237. *Electricity and Magnetism*

The study of electric and magnetic fields, galvanic cells and galvanometers; the measurement of potential differences, resistances and currents. Three hours, first term.

238. *Electricity and Magnetism*

A continuation of the preceding, with measurements of capacities, inductances, and radioactivity. Three hours, second term.

239. *Electrical Theory*

An advanced course consisting of lectures on the recent developments of the subject, including the discharge of electricity through gases, the electron theory and radioactivity. Three hours, third term.

240. *Light*

An advanced laboratory course devoted to the study of diffraction, interference, etc., from the standpoint of the wave theory. Three hours, first term.

241. *Light*

A continuation of the preceding course with lectures on optical theory. Three hours, second term.

242. *Physical Manipulation*

A course for students who expect to become teachers of physics or to take up advanced work in the subject. The course is designed to give the student facility in the preparation of materials and apparatus for laboratory work. The blowing, cutting, drilling and grinding of glass, the purification of mercury, the preparation of various laboratory materials and the exposure and development of photographic plates. Three hours, third term.

The courses described under Graduate Instruction in Physics, page 101, as well as the Electrical Engineering courses may also be counted as electives in physics. Candidates for the Master's degree may take any of the above excepting 230 to 233.

## XIV. POLITICAL ECONOMY AND POLITICAL SCIENCE

PROFESSOR THROCKMORTON

Three hours a week in Economics are required of all Seniors during the first and second terms and three hours a week in Political Science of all Seniors during the third term. A statement of the courses in detail is given below:

### 250. *Economics*

A study of the rise and progress of modern industry in England and the United States serves as an introduction to this course and is followed by a study of economic principles with special reference to American conditions. Economic theory and practice are not studied as things apart, but throughout the course the effort is made to show their intimate connection. The more important questions in distribution, such as rent, profits, and wages are given detailed consideration with reference to existing competitive and monopoly conditions. Three hours, first term. Senior required. Seager's *Introduction to Economics*.

### 251. *Economics*

This course is a continuation of 250. After a survey of the general field of Economics, some subject of especial timeliness is taken up and treated in detail by means of a text-book and lectures. The subject studied during 1909, was "Finance." Essays on assigned economic topics are required of each student and certain of these are selected to be read in class as the basis of a general discussion. Three hours, second term, Senior required. Saeger's *Introduction to Economics*; Cleveland's *Elements of Finance*.

### 252. *Constitutional Law*

This course consists of lectures on the historical development and present practice of the English government, and lectures on American colonial institutions, followed by a detailed study

of the Constitution of the United States and the actual workings of the Federal government. Attention is called both to the theory and to the practice of governments, and the student is encouraged to make instructive comparisons. Three hours, third term, Senior required. Cooley's *Principles of Constitutional Law*.

253. *Business Law*

The purpose of this course is to give the student a knowledge of the most essential principles of commercial law. It includes such subjects as contracts, agency, partnership, corporations, sales and commercial paper. One hour, second term, Senior elective. Gano's *Commercial Law*.

254. *Sociology*

This course serves as a general introduction to the study of society. Three hours, first term, Senior elective. Wright's *Practical Sociology*.

# GRADUATE INSTRUCTION

## AIMS

It is the chief purpose of the Graduate Department to surround the student with that atmosphere which shall be the means of awakening in him an earnest sympathy with, and devotion to, the cause of the advancement of knowledge. It is at all times the endeavor of those in charge of the graduate work to excite a truly scholarly spirit by means of intimate personal guidance.

## METHODS OF INSTRUCTION

The instruction in the Graduate Department is carried on either by means of lectures, class-room, laboratory, or seminar work, courses of investigative reading, original research work, or by various combinations of the foregoing. Class-room courses are supplemented by courses of parallel reading or investigation. Where the greater part of the work must, on account of its peculiar nature, be done by exhaustive reading or personal investigation, such study is continually reviewed by the professor in charge. In every case, the greatest care is taken to make the work, whatever its nature, thorough and scholarly.

## LABORATORY AND SEMINAR FACILITIES

In the Graduate Department the College aims to furnish the student with all the necessities for efficient work. Graduate students have, at all times, access to the general library, as well as to the special libraries of the laboratories, seminars and department heads, and are thus enabled to prosecute work of advanced nature under favorable conditions.

## FELLOWSHIPS

For the encouragement of graduate work, the University has established five fellowships amounting to \$250.00 each with all fees remitted, which will be assigned to students of the graduate department. The choice will be made on the basis of scholarship and general ability. The holders of these fellowships will be required to render service as instructors in the College, to the extent of not more than two hours each day, in the department or departments to which they may be assigned.

The regulations governing the assignment of fellowships are as follows:

1. The candidate must be of good moral character and have shown ability and application in his undergraduate work.
2. The applicant must be a candidate for the degree of A. M.

3. Application must be made in writing to the Committee on Graduate Studies.

4. The application must be accompanied by either a recommendation from the head of the department in which the candidate proposes to specialize, or, in case the student comes from some other institution of recognized standing, by the presentation of proper credentials.

5. Fellowships can only be held by those whose education is represented by a college degree. However, application may be made by students about to take such a degree, since these regulations apply to the time of entrance upon the duties of the fellowship.

6. A fellow shall pursue his studies under the immediate supervision of the professor or professors having charge of his major and minor studies. The University services required of a fellow shall be assigned by the President of the University, and shall be carried forward under the direct supervision of the head of the department in which he is to give instruction.

## SCHOLARSHIPS

A limited number of \$100.00 scholarships are available, and will be assigned under the rules governing fellowships. See above, Rules 1-5.

## GRADUATE COURSES OF INSTRUCTION

## I. BIOLOGY

PROFESSOR RAINEY

300. *Comparative Anatomy of the Nervous System*

The gross anatomy and microscopic structure of the central nervous system of the vertebrates, including the study of the brain structure of the perch, necturus, pigeon and sheep, and the structure of the spinal cord in representative forms. A course in general comparative anatomy is a prerequisite.

301. *Advanced Bacteriology*

Investigations in the subject especially in its relations to sanitary problems and to economic questions.

302. *Biological Theories and Problems*

A review and discussion of current biological questions. Open to Seniors as well as to graduates. One hour a week.

## II. CHEMISTRY

PROFESSOR CLARK

Students who have fulfilled the requirements for the work in undergraduate courses 30 to 35 inclusive, can secure the degree of Master of Arts in one year; those who have had courses 30 to 32 inclusive, may require a longer period.

For a detailed outline of courses offered in this department the student is referred to the advanced courses, under undergraduate instruction, page 66; and to the course, beyond the first and second years, in the Chemical Engineering Course, pages 115-117.

310a, 310b, 310c. *Industrial Chemistry*

A lecture-room course, dealing with important industrial operations. Work is illustrated by lantern-slides. When convenient, excursions to nearby cities will be made for the purpose of examining industrial plants in operation. Three hours, first, second and third terms.

Thesis. A thesis, containing the results of at least one-half year's work, is required of all students, who may select chemistry as their Major subject.

### III. ENGLISH LANGUAGE AND LITERATURE

PROFESSOR THOMAS

The work of graduate students in English is of two kinds: first, work in courses with regular recitations and discussions; and second, the preparation of a thesis involving extended research. The following graduate courses are offered. If the needs of the students demand it, other courses will be added to this list or substituted for some now on the list.

#### 320. *Advanced Old English*

Study of Beowulf or some other Old English work. Special attention to the philological side. Course 69, page 70, or its equivalent is prerequisite to this course.

#### 321. *Chaucer*

A careful study of selected tales and poems. The life and thought of Chaucer's time.

#### 322. *The Elizabethan Drama*

Study of the dramatists contemporary with Shakespeare, with special attention to Marlowe, Ben Johnson, and Beaumont and Fletcher.

#### 323. *Victorian Poetry*

The various movements of this period. A large amount of reading, especially of Tennyson, Browning, Arnold and the Pre-Raphaelites.

### IV. GERMANIC PHILOLOGY

PROFESSOR BLAYNEY

It is the aim of this department to acquaint the student with philological methods. For this purpose a number of courses on special periods are offered both in literature and



linguistics. Since the courses alternate, the whole of the candidate's attention is concentrated upon the study of a single period. He is expected to carry on independent investigative work along the line of the subject under consideration.

## LITERATURE

331. *Pseudo-Classicism and the Age of Frederick the Great*

Opitz, Gottsched, Gryphius, Klopstock, Wieland. Destruction of Gottschedianism; Lessing. Discovery of classic antiquity; Winckelmann. Lectures. Seminar work. Alternates with 332.

332. *Sturm und Drang*

Klinger, Buerger, Individualism. The great classics. Herder, Kant, Schiller and Goethe. The classics of criticism are consulted and reports made at the meetings of the Seminar. Alternates with 330, 331. Given 1909-10.

## LINGUISTICS

333. *Gothic*

Introduction to special work in comparative philology. Braune's *Gotische Grammatik*. Hahn's *Ulfilas*. Seminar Course. Alternates with 334, 335.

334. *Old High German*

Braune's *Althochdeutsche Grammatik*, Schaffler's *Althochdeutsche Litteratur*. Paul's *Grundriss*, etc. Seminar course. Alternates with 333, 335.

335. *Middle High German*

Paul's *Mittelhochdeutsche Grammatik*, Golther's *Der Nibelungen Not*, Wilmaun's *Walter von der Vogelweide*, Marold's *Auswahl aus dem höfischen Epos*. Seminar course. Alternates with 333, 334.

## V. GREEK

## PROFESSOR REDD

340. For admission to this course the completion of the undergraduate course in the Centre College, or an equivalent, is

necessary. There will be a thorough study of the syntax of mood and tense and advanced form composition. Readings from the Attic orators, the dramatists, and Thucydides. The selections will be varied from year to year. Greek history and Literature. The private and public life of the Greeks. History of Athenian politics. Origin and development of the Greek drama. Metre and rhythm. Archæology. Every effort will be made to assist the student in his private studies.

## VI. HISTORY

PROFESSOR THROCKMORTON

### 350. *The French Revolution*

This is a seminar course devoted to a careful study of the revolutionary period, with special emphasis upon the causes and results of the French Revolution. Research work and reports. Three hours a week. Given during the Fall and Winter terms, 1910-11, and alternating with Course 351.

### 351. *England in the Seventeenth Century*

A careful study is made of the issues between king and parliament, of the Commonwealth under Cromwell, and of the events leading up to the revolution of 1688. Three hours a week. Given during the Fall and Winter terms 1909-10, and alternating with Course 350.

### 352. *American Constitutional History*

This course includes a study of the adoption of the Federal Constitution, of the great controversies that arose over its construction, and of the effects wrought by the Civil War on our constitutional system. Research work and essays. Three hours a week. Given during the Spring term, 1911, and alternating with Course 353.

### 353. *The Civil War and After in the United States*

Emphasis is placed upon the causes of the Civil War and its political aspects; a careful study is made of the reconstruction

era in the South, and attention is called to recent departures in foreign policy. Three hours. Given during the Spring term, 1910, and alternating with Course 352.

## VII. LATIN

PROFESSOR CHEEK

360. *Livy*

Three hours. Parallel readings from Tacitus.

361. *Letters of Cicero*

Three hours. Parallel readings from Pliny the Younger.

362. *Satires of Horace*

Three hours. Parallel readings from Juvenal.

363. *Poetry of the Augustan Age*

Three hours. Reports to be made on assigned topics.

364. *Prose of the Silver Age*

Three hours. Reports to be made on assigned topics.

365. *Comedies of Plautus*

Three hours. Parallel readings from Terence.

366. *Roman Literature*

Through the year. Written examinations.

## VIII. MATHEMATICS

PROFESSOR CROOKS

370. *Calculus*

An advanced course based upon Williamson's *Calculus* and dealing principally with partial derivatives and multiple integrals with geometric applications.

371. *Differential Equations*

Ordinary and Partial Differential Equations. The work is

based upon Page's *Ordinary Differential Equations* and Murray's *Differential Equations*.

372. *Theory of Equations*

Based on Burnside and Panton's *Theory of Equations*.

## IX. PHILOSOPHY

### PRESIDENT HINITT

390. *Systematic Psychology*

An advanced course; lectures, readings, essays, and experimental illustrations. Reference will be made to the standard works on Psychology, both descriptive and experimental. A reading knowledge of German is necessary to the course.

391. *Ethical Theory*

The main problems and types of ethics as presented in Martineau's *Types of Ethical Theory*, Sidgwick's *Methods of Ethics* and Greene's *Prolegomena to Ethics*.

392. *Logical Theory*

An examination of recent discussions and developments in logic, with special reference to the metaphysical applications.

393. *British Philosophy*

Locke, Berkeley and Hume. Readings from the principal works.

394. *The Critical Philosophy of Kant*

Lectures, discussions and readings. *The Critique of Pure Reason*, Max Muller's translation; Paulsen's *Kant*. Caird's *The Critical Philosophy of Kant*.

395. *Post-Kantan Idealism*

Lectures and textual study.

396. *Philosophy as Reflected in English Literature*

Wordsworth, Carlyle, Emerson, Tennyson, Browning.

397. *Contemporary Philosophy*

Readings in the recent literature of Theism, Naturalism and Pragmatism.

## X. PHYSICS

PROFESSOR SMITH

Graduate students may elect any of the courses described on pages 89, 90, all of which may be counted as work for the Master's degree except 230-233. The following courses are also offered for graduate students:

400. *Repetition of Classical Experiments*

This course is a preparation for the work of independent research and consists in the repetition by the student of classical experiments or recent pieces of investigation.

401. *Research*

Open to students who have had sufficient preliminary training and give evidence of ability to do investigative work.

XI. POLITICAL ECONOMY AND POLITICAL  
SCIENCE

PROFESSOR THROCKMORTON

410. *Applied Economics*

This is a seminar course dealing with the more important practical problems in economics. The present session has been devoted to a study of the Tariff, Transportation, and the Labor Problem. Three hours. Given during the Fall and Winter terms, 1910-11, and alternating with Course 411.

411. *Financial History of the United States*

This course includes a study of the currency questions that have agitated the public mind, the State and National banking systems, the history and causes of panics, and the present financial system of the United States. Three hours. Given

during the Fall and Winter terms, 1909-10, and alternating with Course 410.

412. *English and American Political Institutions*

This course is devoted to advanced historical and comparative study of the English and American constitutions. While the theory of the respective governments is not neglected, more especial emphasis is placed upon their practical working. Each student is required to make a careful study of and to prepare an essay upon some phase of Cabinet or Congressional government. Three hours. Given during the Spring term 1911, and alternating with Course 413.

413. *Jurisprudence*

Attention is given to the principles and methods of both the historical and the analytical schools of jurisprudence, to the development and extension of the civil and common law and to the analytical study of public and private law. Three hours. Given during the Spring term, 1910, and alternating with Course 412.

## XII. ROMANIC PHILOLOGY

PROFESSOR BLAYNEY

Candidates desiring to specialize in this department should have a reading knowledge of German. Prerequisites for graduate work in Romanic Philology are the required courses in the French section of the undergraduate courses.

As the aim of this department is to acquaint the student with research methods, the efforts of candidates are concentrated upon the study of single periods.

### LITERATURE

420. *History of the Drama and Pseudo-Classicism*

Mystères, Farces, Satires, Moralités. Jodelle, Garnier. The great classics of the XVII Century, with special attention to the dramatists. Seminar course. Extensive collateral readings. Alternates with 421.

421. *The Eighteenth Century*

(a) From 1700 to Rousseau. (b) From Rousseau to 1800. Voltaire, Les Encyclopédistes, Rousseau, La Comédie, supplemented by investigative reading and discussions. Seminar course. Alternates with 420.

## LINGUISTICS

423. *Introduction to the Study of Old French*

Reading of Old French texts. Nonnenmacher, Paris, or Paris-Langlois. Schwan's *Grammatik des Altfranzösischen*. Seminar course.

424. *History of the French Language*

History of its development from the vulgar Latin to the Sixteenth Century. Seminar lectures, with parallel reading in the authorities.



## ENGINEERING COURSES

The completion of Young Hall and the installation of shops and laboratories have made possible the extension of the work of the University along engineering lines. Courses in Civil, Electrical, and Chemical Engineering have therefore been arranged. The entrance requirements for these courses are the same as for the Scientific Course, page 41.

### LABORATORIES AND EQUIPMENT

#### THE PHYSICAL LABORATORY

For description of Physical Laboratory see page 25.

#### THE CHEMICAL LABORATORY

For description of Chemical Laboratory see page 23.

#### THE WOOD SHOP

Double benches are provided and a full set of bench tools for each student. Instruction in turning is given on lathes of the latest pattern furnished with the necessary tools. The latest types of band scroll saw, surface planing machine and variety wood-worker have recently been installed and by means of these the student is given practical experience in the care and operation of planing-mill machinery. The work done in this shop comprises joinery, turning, cabinet making and pattern making.

#### THE MACHINE SHOP

The equipment comprises lathes, drill, emery grinder, etc. Extensive additions will be made to this shop in the near future.

### THE ELECTRICAL LABORATORY

A complete laboratory provides facilities for instruction in the care, operation and testing of electrical instruments and apparatus. The laboratory is supplied with alternating current from the town plant and direct current for experimental purposes is obtained from a rotary converter installation. The equipment includes also a double current generator, capable of a great variety of uses, and series, shunt and induction motors. Various types of transformers, meters and arc lamps are represented and all necessary lamp banks, rheostats and portable measuring instruments are provided. A three panel marble switchboard is used to make connections for operating the apparatus under any desired conditions. A storage battery of ample capacity for field excitations, etc., is to be installed in a separate room.

### SURVEYING

The equipment for this work includes all necessary transits, levels, sextants as well as smaller instruments and accessories, such as leveling rods, ranging poles, etc.

### DRAWING

A large, well-lighted room in Breckinridge Hall is furnished with adjustable drawing tables for this work and lockers for individual use.

### CIVIL ENGINEERING

The purpose of this course is to give a broad education in those general and scientific subjects which form the foundation of all branches of technology and special training in those subjects, comprised under the term civil engineering.

The theoretical portion of the instruction is based largely upon the courses given in the departments of mathematics and physics and the results obtained are applied to practical engineering work. Special stress is laid upon the design by the student of the various structures which the civil engineer is called upon to construct in the practice of his profession.

## Freshman Year

Subjects	Hours per week			For descrip'n see	
	Term 1	Term 2	Term 3	Page	Course Number
Mathematics.....	3	6	3	77	150-152
German.....	3	3	3	81	173-175
English.....	3	3		68	60-61
Physics.....	3	3	3	88	230-232
Drawing.....	3	3		67	50
Descriptive Geometry.....			4	67	51
Wood Shop.....	3		3	107	551
Biblical Literature.....			3	60	1
Hygiene.....				87	
	18	18	19		

## Sophomore Year

Mathematics.....	6	4	4	78	153-155
French.....	3	3	3	83	186-188
Surveying.....	3	5	3	107	500-501
Chemistry.....	3	3	3	64	30-32
Physics.....	3	3		89	233-234
Topographical Drawing.....			3	107	502
Biblical Literature.....			3	--	2
	18	18	19		

## Elective Courses

These courses must be preceded by the work of Freshman and Sophomore years.

Analytical Mechanics.....	79	160-162
Geology.....	63	20-22
Astronomy.....	79	163
Railroad Engineering.....	107	505
Construction Drawing.....	107	506
Engineering Materials.....	108	509
Graphic Statics.....	107	507
Roofs and Trusses.....	108	508
Steam Engineering.....	112	541
Electrical Engineering.....	112	546
Economics.....	91	250-251
Engineering Contracts and Specifications.....	109	515
Bridges.....	108	510
Masonry and Concrete.....	108	511
Roads and Pavements.....	108	513
Water and Sewerage.....	108	512
Steel Structures.....	108	514

## COURSES OF INSTRUCTION

500. *Surveying*

Recitations, lectures, field and office work in the theory, use and adjustment of the compass, level, transit, plane table and sextant. Distances by chain and tape; determination of areas; profile leveling. Three hours, first term, Sophomore year.

501. *Surveying*

In this course a careful study is made of U. S. land survey methods, and problems in re-location of boundaries, partition of land, etc., are assigned. Theory and use of the stadia. Methods of topographic surveying and field work. Five hours, second term, three hours, third term, Sophomore year.

502. *Topographical Drawing*

Conventional signs. Construction of topographical contour maps. Three hours, third term, Sophomore year.

503. *Railroad Engineering*

Preliminary and location surveys of a railroad. Each student makes a complete set of notes, maps, profiles, calculations, and estimates. The economic problems of railroad location and construction are considered. Three hours, third term.

506. *Construction Drawing*

Problems in stone cutting, including plans for piers, culverts, and arches. Isometric drawings and linear perspective. Principles of construction of mill buildings, etc. Three hours, third term.

507. *Graphic Statics*

Analysis of the stresses in roof trusses by the force polygon. Applications of the equilibrium polygon to simple cases. Three hours, second term.

508. *Roofs and Trusses*

The theory and computation of stress in roof and bridge trusses under dead, live and wind loads. Locomotive wheel loads on plate girders and bridge trusses.

509. *Engineering Materials*

Lectures on the properties and requirements of materials entering into engineering structures. Processes of manufacture and their influence on properties. Two hours, third term.

510. *Bridges*

Study of bridge details. Design of a railroad bridge by each student and making of a complete set of drawings for the same. Computation of stresses and deflections of various types of bridges. Five hours, first and third term, three hours, second term.

511. *Masonry and Concrete*

Text-book work on masonry construction. The design of masonry and reinforced concrete structures. Three hours, second term.

512. *Water and Sewerage*

A study of sources of water supply; methods of storing, piping and distributing. Design and construction of sewerage systems. Three hours, two terms.

513. *Roads and Pavements*

Principles and details of construction of earth, gravel and macadam roads for country highways. Methods of construction, cost and durability of city streets. Three hours, third term.

514. *Steel Structures*

Design and calculation of stresses in mill and steel-skeleton buildings. Methods of fire-proofing. Two hours, third term.

515. *Engineering Contracts and Specifications*

A study is made of the fundamental principles of the law of contract, and of examples of clauses of various kinds used in engineering specifications. Two hours, third term.

## ELECTRICAL ENGINEERING

The object of this course is to give a broad education in general and scientific subjects and to give training in those subjects which will be of most value to an electrical engineer in the practice of his profession. Through these special subjects ability is developed to solve problems of a technical as well as of a commercial nature. The aim in the work is to give the student a thorough drill in mathematics and physics as an introduction to the related work in electrical engineering and to secure practical familiarity with theoretical principles by laboratory and experimental work. The laboratory work comprises a detailed study of instruments, apparatus and methods in commercial use. In the laboratory work special emphasis is laid upon the production by the student of clear, concise and neat reports on experiments as tending to cultivate these qualities in reports submitted in actual practice.

## Freshman Year

Subjects	Hours per week			For descrip'n see	
	Term 1	Term 2	Term 3	Page	Course Number
Mathematics.....	3	6	3	77	150-152
German.....	3	3	3	81	173-175
English.....	3	3		68	60-61
Physics.....	3	3	3	88	230-232
Drawing.....	3	3		67	50
Descriptive Geometry.....			4	67	51
Wood Shop.....	3		3	107	551
Biblical Literature.....			3	60	1
Hygiene.....				87	
	18	18	19		

## Sophomore Year

Subjects	Hours per week			For descrip'n see	
	Term 1	Term 2	Term 3	Page	Course Number
Mathematics.....	6	4	4	78	153-156
French.....	3	3	3	83	186-188
Chemistry.....	3	3	6	64	30-33
Physical Laboratory.....	3			89	233
Electrical Measurements.....		3	3	89	234-235
Machine Shop.....		3		113	552
Machine Design.....	3	3		68	52
Biblical History.....			3	60	2
	18	19	19		

## Elective Courses

These courses must be preceded by the work of Freshman and Sophomore years.

Analytical Mechanics.....	79	160-162
Direct Currents.....	111	530
Alternating Currents.....	111	531
Electrical Engineering Laboratory.....	111	534
Surveying.....	107	500
Graphic Statics.....	107	507
Mechanism.....	68	53
Thermodynamics.....	111	535
Dynamo Design.....	111	536
Electric Lighting.....	111	537
Engineering Materials.....	108	509
Advanced Alternating Currents.....	111	538
Electrical Engineering Laboratory.....	112	539
Electrical Design.....	112	540
Steam Engineering.....	112	541
Electrochemistry.....	90	239
Telephones.....	112	542
Power Plants.....	112	543
Economics.....	91	250-251
Engineering Contracts and Specifications.....	109	515
Power Transmission and Railways.....	112	544
Seminar.....	112	545
Thesis.....	107	550



## COURSES OF INSTRUCTION

530. *Direct Currents*

Fundamental principles of generators and motors; application of these principles to the design and operation of electrical machinery. Three hours, first and second terms.

531. *Alternating Currents*

A mathematical and graphical treatment of the principles of periodic currents. Methods of alternating current measurement. Three hours, second and third terms.

534. *Electrical Engineering Laboratory*

Practice in the methods of using and testing direct current measuring instruments. Operation and testing of direct current machinery. Two hours, three terms.

535. *Thermodynamics*

Study of the fundamental laws governing the transformation of heat into work and application to the study of modern heat motors. Four hours, second term.

536. *Dynamo Design*

Study of the materials of dynamo construction. Electrical and magnetic calculations for a direct current dynamo. Two hours, third term.

537. *Electric Lighting*

Principles of electric illumination. Methods of electrical distribution. Photometry of commercial lamps. Two hours, third term.

538. *Advanced Alternating Currents*

Steinmetz's symbolic method. Study of alternating current motors and rotary converters; their applications. Three hours, three terms.

539. *Electrical Engineering Laboratory*

Study of alternating current circuits, instruments and machines. Polyphase operation. Two hours, first and second terms.

540. *Electrical Design*

Calculation and design of alternating current generators and transformers. Two hours, first and second terms.

541. *Steam Engineering*

The construction, care, and operation of boilers and engines; the indicator and indicator diagrams; steam engine performance. Four hours, first and second terms.

542. *Telephones*

Fundamental principles. Telephones, line construction, switchboards and operation. Three hours, first term.

543. *Power Plants*

Principles governing the location of power plants. Economical transmission distance. Selection and installation of generating units. Drawings and specifications for a complete plant. Four hours, third term.

544. *Power Transmission and Electric Railways*

A study of the generation, distribution, transmission and consumption of electrical energy. The problems of electric railways and long distance transmission are discussed. Three hours, third term.

545. *Seminary*

A weekly meeting for the discussion of topics from current periodicals and of scientific papers.

546. *Electrical Engineering*

A course for civil and chemical engineers. Direct and alternating current theory and laboratory work. Three hours, first and second terms.

550. *Thesis*

Investigation and research devoted to some electrical engineering problem with report. Five hours, third term.

551. *Wood Shop*

Joinery, turning, pattern making. Study of modern wood-working machinery. Three hours, second and third terms, Freshman year.

552. *Machine Shop*

Operation of standard machine tools and study of shop processes. Two hours, first term, and three hours, second and third terms, Sophomore year.

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## CHEMICAL ENGINEERING

This course of study is arranged to meet the growing demand, in this, and in adjoining States of the South, for young, active men, trained in the science of chemistry, with sufficient drill in the essentials of engineering to prepare them for positions of responsibility, in the analytical laboratory or in the shop, where pure chemistry may or may not be the principal factor. It will be noted that students beginning this course are required to commence the study of chemistry in the first term, Freshman year. For the most part the work in the earlier phases is like that for other courses in the college. For example, the classical student, who may elect chemistry in Freshman year, will be required to proceed through the year with the students of this and other engineering courses and of the General Science course. In the spring term of Freshman year a differentiation is made and the students of Engineering Chemistry are required to double their work in chemistry, taking, as the additional work, the course in Inorganic Preparations.

In the early part of Sophomore year the work separates further from the General Science course, being augmented by work in elementary quantitative analysis; and in the Junior year the chemical work becomes more and more distinctive, organic chemistry occupying a larger portion of the time. During the last year of the course, the work is expanded to such an extent that the student is given ample opportunity to show his originality. The thesis, which is designed for the above purpose, will serve to introduce certain problems in original research, or to carry out more difficult analytic work.

### Freshman Year

Subjects	Hours per week			For descrip'n see	
	Term 1	Term 2	Term 3	Page	Course Number
Mathematics.....	3	6	3	77	150-152
German.....	3	3	3	81	173-175
English.....	3	3		68	60-61
General Chemistry.....	3	3	3	64	30-32
Inorganic Preparations.....			3	65	33
Drawing.....	3	3		67	50
Wood Shop.....	3		3	107	551
Biblical Literature.....			3	60	1
Hygiene.....				87	
	18	18	18		

### Sophomore Year

Mathematics.....	6	4	4	78	153-155
French.....	3	3	3	83	186-188
Qualitative Analysis.....	3			65	34
Quantitative Analysis.....	3	6	3	66	35-37-560
Physics.....	3	3	6	88	230-233
Machine Shop.....		3		107	552
Biblical Literature.....			3	--	2
	18	19	19		

## Elective Courses

These courses must be preceded by the work of Freshman and Sophomore years.

	For descrip'n see	
	Page	Course Number
Analytical Mechanics.....	79	162-164
Metallurgy.....	116	563
Water Analysis.....	116	564
Gas Analysis.....	116	565
Quantitative Analysis.....	115	561
Electrical Engineering.....	112	546
Geology.....	63	20-22
Organic Chemistry.....	67	38-40
Thermodynamics.....	111	535
Mineralogy.....	116	566
Assaying.....	116	567
Industrial Chemistry.....	117	568
Seminar.....	117	569
Physical Chemistry.....	117	571-572
Organic Chemistry.....	116	565
Quantitative Analysis.....	116	562
Steam Engineering.....	112	541
Economics.....	91	250-251
Thesis.....	117	572

## COURSES OF INSTRUCTION

For particulars concerning laboratory fees and general remarks reference is given to page 64, preceding course 30. The following courses of study, which form the basis for the greater amount of the work in Freshman and Sophomore years, should be carefully noted: 30,31,32,33,34,35,36,37,38, and 39, on pages 64-67. These cover the subjects of General Chemistry, Qualitative and Elementary Quantitative Analysis, Inorganic Preparations and Organic Chemistry.

560. *Quantitative Analysis*

Prerequisite 36, of which it is a continuation. It will include more complicated analytical operations. Three hours, second or third term.

561. *Quantitative Analysis*

Prerequisite 560. Commercial and in many instances, crude material will receive attention, both from the qualitative and quantitative point of view. The analysis of iron, iron ores and various iron products, such as steel, will be included in the work.

562. *Quantitative Analysis*

Prerequisite 561. This course deals more particularly with the examination of Kentucky mineral products; the analysis of coals and coke. Three hours, third term.

563. *Metallurgy*

Prerequisite 35. Elective in all courses, except Chemical Engineering. A study of ores, slags, ore reduction processes; for the most part a recitation-room course. Three hours, first term. Will not be offered before the fall of 1910.

564. *Water Analysis*

Prerequisites 30-34; 37-39. Elective in other courses. The problem of sanitation in so far as water is concerned will be taken up. The value of water for boiler and other economic processes will be tested. Three hours, second term.

565. *Organic Chemistry*

Prerequisite Course 38. Continuation of Course 38. The work has to do with benzine compounds exclusively. Three hours, first term.

566. *Gas Analysis*

Prerequisites 30-35; 37-39. Elective in other courses. The analysis of atmospheric air, coal and artificially prepared gases will consume the time allotted to this course. Three hours, third term.

567. *Mineralogy*

The college possesses a fairly good assortment of minerals, from many sections of the United States. These will be examined as to their crystallographic form, hardness, specific gravity and chemical composition, in so far as simple tests can yield such results. This course will not be given before the spring of 1911. Three hours, third term.

568. *Assaying*

Prerequisites 30-35. Assaying of gold and silver ores; study of muffles and various furnaces; combined laboratory and recitation work. This course will not be offered before the fall of 1911. Three hours, first, second and third terms.

569. *Industrial Chemistry*

Prerequisites 30-32; 33-35 or 37-39. In courses other than the Chemical Engineering, this work can be substituted for certain other advanced work as for example some of the quantitative analysis. For full particulars see Graduate courses, page 95.

570. *Chemical Seminar*

Prerequisites 30-32; 37-39. Weekly meetings of the advanced students. Reports are made by the instructor and students of articles appearing in the current literature. Through this work also the students are referred to the original articles, bearing on their work.

571. *Physical Chemistry*

Prerequisites courses 32, 34-38. This course will be given any year that four students present themselves for work. Lectures and recitations on the theories of atoms, molecules and solutions. Laboratory work on molecular weights by the vapor tension, boiling point and freezing point methods. Three hours, second term.

572. *Physical Chemistry*

Prerequisite course 571. Continuation of course 571. Three hours, third term.

573. *Thesis*

A subject for original investigation will be assigned each student. Three hours, third term.



## PRIZEMEN. 1908-1909

## THE ORMOND BEATTY ALUMNI PRIZE

Fred Moore Vinson.....Louisa, Ky.

## THE HENRY BARRET BOYLE LATIN PRIZE

Thomas Edwin Quisenberry.....Danville, Ky.

Caldwell Reghell Walker.....Silerville, Ky.

## ORATORICAL PRIZES

*February Contest*

John Shuck McElroy.....Springfield, Ky.

*June Contest*

First Prize: Benjamin H. Sachs.....Louisville, Ky.

Second Prize: Cecil Van Meter Crabb.....Eminence, Ky.

## THE WILLIAM ERNST PRIZE

Jack Hynes McChord.....Springfield, Ky.

John Shuck McElroy.....Springfield, Ky.

Lawrence Inglis McQueen.....Shelbyville, Tenn.

## HONOR SCHOLARSHIPS

Junior Class: Cecil Van Meter Crabb.....Eminence, Ky.

Sophomore Class: Thomas Edwin Quisenberry..Danville, Ky.

Freshman Class: James Breathitt.....Frankfort, Ky.

## VALEDICTORIAN

Jack Hynes McChord.....Springfield, Ky.

## DEGREES CONFERRED, JUNE, 1909

## Degrees in Course

## BACHELOR OF ARTS

Grannis Bach .....	Jackson, Ky.
Hugh Cassiday .....	Elizabethtown, Ky.
Henry Wisdom Cave.....	Paducah, Ky.
Gifford Davidson Collins.....	Lookout Mountain, Tenn.
Milton Mitchell Durham.....	Danville, Ky.
Lawrence White Hager.....	Louisville, Ky.
Frederick Ireland Shannon Hess.....	Louisville, Ky.
Walter Alves Hopkins.....	Wickliffe, Ky.
George Francis Lee.....	Danville, Ky.
Madison Johnson Lee.....	Danville, Ky.
Jack Hynes McChord.....	Springfield, Ky.
Edward Ford McConnell.....	Danville, Ky.
John Shuck McElroy.....	Springfield, Ky.
Lawrence Inglis McQueen.....	Shelbyville, Tenn.
Samuel Houston Miller.....	Richwood, Ky.
Malcolm Dunbar Raworth.....	Vicksburg, Miss.
Benjamin H. Sachs.....	Louisville, Ky.
Henry Shelton St. Clair.....	Louisville, Ky.
Fred Moore Vinson.....	Louisa, Ky.
Hugh Allen Voris.....	Burkin, Ky.

## MASTER OF ARTS

John Palmer Darnall.....	Flemingsburg, Ky.
Edgar E. Hume.....	Frankfort, Ky.
De Witt Collins Lee.....	Covington, Ky.
Shelton Hughes Watkins.....	Owensboro, Ky.
Thomas Graham Watkins.....	Louisville, Ky.

## Honorary Degrees

## DOCTOR OF DIVINITY

Rutherford Edwin Douglas.....	Macon, Ga.
Henry Hays Sweets.....	Louisville, Ky.

# STUDENTS IN THE CENTRE COLLEGE

## GRADUATE STUDENTS

Hugh Cassiday ..... Elizabethtown, Ky.

A. B. Centre College, 1909

BIOLOGY, CHEMISTRY

Lawrence White Hager..... Louisville, Ky.

A. B. Centre College, 1909

GERMAN, JURISPRUDENCE

Frederick Ireland Shannon Hess..... Louisville, Ky.

A. B. Centre College, 1909

CHEMISTRY, LAW

Madison Johnson Lee..... Danville, Ky.

A. B. Centre College, 1909

PHYSICS, ELECTRICAL ENGINEERING

Jack Hynes McChord..... Springfield, Ky.

JURISPRUDENCE, PHILOSOPHY

John Shuck McElroy..... Springfield, Ky.

A. B. Centre College, 1909

ENGLISH, JURISPRUDENCE

Fred Moore Vinson..... Louisa, Ky.

A. B. Centre College, 1909

JURISPRUDENCE, HISTORY

## UNDERGRADUATE STUDENTS

## Senior Class

Allen, Andrew Darnall	Elizaville, Ky.
Arnold, Joseph Irvin	Versailles, Ky.
Crabb, Cecil Van Meter	Eminence, Ky.
Faulconer, Elijah Potter	Danville, Ky.
Fleece, Charles Leslie	Campbellsville, Ky.
Frank, Louis Wallace	Louisville, Ky.
Gilcher, Frank Neutzel	Danville, Ky.
Hendrie, Joseph Munier	Central City, Ky.
Hudson, Shirley	Lancaster, Ky.
Purdom, Thomas Luther	Parksville, Ky.
Ryan, Phillips Harper	Beard, Ky.
Seelbach, Louis	Louisville, Ky.

## Junior Class

Allen, Charles Edward	Maysville, Ky.
Anderson, William Clayton	Danville, Ky.
Bethel, James Worthington	Danville, Ky.
Caldwell, William Perkins	Danville, Ky.
Crenshaw, David Dudley	Dermott, Ark.
Long, Herschel Allen	Hopkinsville, Ky.
Mason, John Thornton	Louisville, Ky.
Metcalf, John Thomas	Pineville, Ky.
Orr, Harvey Hunter	Covington, Ky.
Quisenberry, Thomas Edwin	Danville, Ky.
Reid, Horace Withers	Danville, Ky.
Tabb, Abisha Frank	Sonora, Ky.
Todd, William Robert	Columbia, Ky.
Vivion, Glave Goddard	Harrodsburg, Ky.
Walker, Caldwell Reghell	Somerset, Ky.
Webber, Thomas Edward	Texarkana, Ark.

## Sophomore Class

Bates, Edgar Fleming	Danville, Ky.
Bird, Thomas Branch	Shelbyville, Ky.

Boulware, Judson Powell	Eminence, Ky.
Breathitt, James	Frankfort, Ky.
Caldwell, William Logan	Danville, Ky.
Carpenter, James Henry	Covington, Ky.
Dorsey, John L.	Henderson, Ky.
Glascock, Joseph William	Williamstown, Ky.
Haynes, James Miller	Morganfield, Ky.
Lee, James Ambrose	Danville, Ky.
Lyons, John Sprole	Louisville, Ky.
McClure, William Crooks	Danville, Ky.
Miller, William McClannahan	Richwood, Ky.
Pogue, Robert Bedford	Danville, Ky.
Pogue, Edward Mitchell	Danville, Ky.
Prichard, Edward Fretwell	Paris, Ky.
Ramsey, James Kerr	Madisonville, Ky.
Rogers, William Henry	Danville, Ky.
Timony, Arthur W.	Danville, Ky.
Webster, Henry Archibald	Danville, Ky.
Wilkinson, Edwin Floyd	Taylorsville, Ky.
Wood, George Twynam	Louisville, Ky.

### Freshman Class

Bright, James Gardner	Chattanooga, Tenn.
Brownell, Halford Hume	Louisville, Ky.
Cave, Edwin Arnold	Danville, Ky.
Chrisman, Robert J.	Danville, Ky.
Chapman, Hugh Hardin	Morganfield, Ky.
Clark, Lucius	Columbia, Tenn.
Cleek, Omer W.	Beaver Lick, Ky.
Clubb, Elmo	Pleasureville, Ky.
Davis, Jackson Curry	Danville, Ky.
De Haven, Kenny N.	Mt. Sterling, Ky.
Dosker, Richard John	Louisville, Ky.
Dyer, Cromwell Adair	Morganfield, Ky.
Fagan, Edwin Giles	Augusta, Ky.
Ferguson, William Kenney	Paris, Ky.
Flournoy, Fitzgerald	Morganfield, Ky.
Foxworthy, Manford Everitt	Mt. Carmel, Ky.

Ginn, Arthur R.	Ashland, Ky.
Grant, Henry Lee	Burlington, Ky.
Guerrant, William Barnett	Danville, Ky.
Hardin, Harold	London, Ky.
Hawes, James Cary	Danville, Ky.
Herndon, Charles Allan	Frankfort, Ky.
Irwin, Robert	Louisville, Ky.
Irvine, John Craig	Danville, Ky.
Jones, Arthur Culiatte	Memphis, Tenn.
Johnson, Carroll	Harrodsburg, Ky.
Lewis, William Henry	Hÿden, Ky.
Mack, Edward	Cincinnati, Ohio.
Nichols, Charles H.	Fulton, Ky.
Pidgeon, Phil	Memphis, Tenn.
Prichard, Thomas Taylor	Paris, Ky.
Raworth, Harry Newton	Vicksburg, Miss.
Rue, George Welsh	Danville, Ky.
Seelbach, William Otto	Louisville, Ky.
Sharp, Hord	Sharpsburg, Ky.
Simrall, William F.	Covington, Ky.
Stephenson, John Stuart	Columbia, Tenn.
Stevenson, William Forrest	Carrs, Ky.
Sutterlin, William Frederick	Frankfort, Ky.
Tate, Robert Stuart	Danville, Ky.
Thomas, Carl H.	Augusta, Ky.
Waller, Will Wright	Morganfield, Ky.
Winn, Richard P.	Mt. Sterling, Ky.

### Special Students

Bond, John G.	Lawrenceburg, Ky.
Bruce, James Leonard	Danville, Ky.
Duffy, William M.	Louisville, Ky.
Duncan, Henry R.	Bloomfield, Ky.
Gilcher, Ralfe J.	Danville, Ky.
Kirk, Conrad F.	Paintsville, Ky.
Laswell, Floyd James	Owensboro, Ky.
McConnell, James H.	Danville, Ky.
Mullins, Eber Helton	Mt. Vernon, Ky.

Pepper, Charles A.	Princeton, Ky.
See, Charles Frederick	Fort Gay, W. Va.
Stanley, Harold B.	Shelbyville, Ky.
Tolin, Garnett Walker	Burlington, Ky.
Vinton, Thomas Wood	Memphis, Tenn.
Wardle, Herbert Allen	Memphis, Tenn.



NECROLOGY

Class.

1843. James W. Caperton,  
April 19, 1909.
1846. Charles W. Mitchell, A. B.,  
July 24, 1909.
1848. Robert Parks Davidson, A. B.,  
April 24, 1909.  
Thomas H. Swope, A. B.,  
October 3, 1909.
1850. James M. Carpenter  
September 21, 1909.  
John Hutchins Gaines, A. B.,  
March 19, 1909.
1852. Frank Lewis McChesney,  
October 6, 1909.
1855. Addison Craft, A. B.,  
November 8, 1909.  
Thomas Theodore Crittenden, A. B.,  
May 29, 1909.  
Robert Andrew Irwin, A. B.,  
October 27, 1909.
1858. Oliver Lee Bradley, A. B.,  
April 12, 1909.
1866. George Robertson Pryor, A. B.,  
May 20, 1909.
1869. Peter Tribble Gentry,  
September 23, 1909.

1876. William Cecil Read,  
November 12, 1909.
1878. John Adamson Heron, A. B.,  
November 8, 1909.  
William Greenwood Marks,  
July 24, 1909.
1882. John Linn Tompkins,  
July 2, 1909.
1883. Lindsay Rutherford Blanton, A. B.,  
March 29, 1909.
1891. Thomas Phelps Welch, A. B.,  
June 22, 1909.
1899. Wade Hampton Powell, B. S.,  
May 29, 1909.  
James Garnett Wood, B. S.,  
July 30, 1909.
1900. John Cook Voris, B. L.,  
January 1, 1910.
1901. John Clinton Settles, B. S.,  
June 11, 1909.
1908. Leo Godfrey Simms,  
March 13, 1909.  
James Craddock Wood, A. B.,  
May 4, 1909.

THE COLLEGE  
OF LAW

# THE COLLEGE OF LAW

## CALENDAR

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### 1910

JANUARY 4	Winter term begins.
FEBRUARY 22	Washington's Birthday—Holiday.
MARCH 18	Winter term ends.
MARCH 21	Spring term begins.
MAY 27	Senior examinations end.
JUNE 3	Final examinations end.
JUNE 8	Annual Commencement.

SUMMER VACATION, JUNE 9—SEPT. 13

SEPTEMBER <del>19</del> 21	Fall term begins.
NOVEMBER 24, 25	Thanksgiving Holiday.
DECEMBER 1	Fall term ends.

CHRISTMAS VACATION, DEC. 21, 1910—JAN. 3, 1911.

### 1911

JANUARY 3	Winter term begins.
FEBRUARY 22	Washington's Birthday—Holiday.
MARCH 17	Winter term ends.
MARCH 20	Spring term begins.
JUNE 2	Senior examinations end.
JUNE 9	Final examinations end.
JUNE 14	Annual Commencement.

## OFFICERS OF ADMINISTRATION

FREDERICK WILLIAM HINITT, PH. D., D. D.

*President of the University*

ARCHIBALD HALL THROCKMORTON, A. M., LL. B.

*Dean of the College of Law*

## FACULTY

ARCHIBALD HALL THROCKMORTON, A. M., LL. B.

*Professor of Constitutional Law, the Law of Property, and  
Contracts*

CHARLES HENRY RODES, A. B., LL. B.

*Professor of Equity and Corporation Law*

WILLIAM JENNINGS PRICE, A. M., LL. B.

*Professor of Criminal Law and Procedure and the Law of  
Evidence*

HENRY JACKSON, B. S., LL. B.

*Professor of Pleading and Practice*

WILLIAM HENRY ROBERTS, A. B., LL. B.

*Assistant in Practice*

EDWARD FRANKLIN VORIS, A. B.

*Librarian*

## HISTORY

In the separate growth and development of the Centre College and the Central University, the need was felt in each for a Department of Law, in which especially the graduates of the Academic Departments might pursue their studies until equipped for the bar.

Such a department was early established at the Central University at Richmond, but after several years, the professors, who were also practicing attorneys, moved away, and the Law School was suspended. In the fall of 1898, it was reorganized under more favorable auspices, with the veteran law teacher, Hon. William Chenault, as Dean, and Mr. Richard White Miller as Associate Professor, and these two gentlemen conducted the school until its removal to Danville.

The Danville Law School was established in 1894. Through the efforts of President William C. Young, Ex-Governor J. Proctor Knott was induced to give up his practice at Frankfort and come to Danville, where, as Dean of the Law School he devoted his entire time for the next seven years to the work of instruction. Associated with Ex-Governor Knott were Hon. Robert P. Jacobs and Hon. John W. Yerkes, whose lectures, like those of Ex-Governor Knott, were eagerly sought by the students. When several years later, Mr. Jacobs and Mr. Yerkes, owing to the pressure of other work, gave up their positions in the School, they were succeeded by Hon. Robert T. Quisenberry and Hon. Charles H. Rodes. Ex-Governor Knott remained at the head of the School until June, 1901, when, on account of failing health he resigned and retired from active work.

At the same time, the consolidation of the Centre College and the Central University was effected, and the Law Department of the consolidated institution was established at Danville under the name of the College of Law of Central University. Hon. Thomas P. Hill of Stanford, was elected temporary Dean, and, with Mr. Rodes and Mr. Arthur C. VanWinkle, carried on the work of instruction during the session of 1901-2.

In June, 1902, the present Dean was elected, under whom and his associates the School was reorganized, new quarters were obtained, and the course much extended.

Since then, owing largely to the generous gifts of Mrs. Robert P. Jacobs, the equipment of the school has been greatly improved, and the library especially has been enlarged. The attendance has grown, and the prospects of the school are brighter than ever for increased patronage and usefulness.

### **Admission**

Applicants for admission as candidates for a degree must be at least eighteen years of age and must have a preliminary education equivalent to that of a graduate from a high school. The educational requirement may be satisfied by the presentation of certificate or by examination before the Dean. Applicants unable to satisfy the educational requirements may be admitted as special students, not candidates for a degree, and, upon subsequently making up entrance conditions, may become candidates for a degree.

### **Studies in the Centre College**

Students matriculating in the Law School have the privilege of attending, free of charge, any lectures and recitations in the Centre College. Abundant opportunity is thus afforded the student to make up any deficiency in his earlier education and to fit himself for intellectual leadership in active life. It is especially recommended that students who have not had a college education take at least one course each term in English or American History, Political Science, Economics, or Literature, as they may have opportunity.

### **Admission to Advanced Standing**

Applicants for admission who have completed courses of study in other law schools of approved standing will, in the discretion of the Faculty, and upon presentation of the proper certificates, be given corresponding credit for such courses.



### Special Students

Students are strongly advised to take the regular course prescribed for candidates for a degree, but upon assigning satisfactory reasons, they may be given special permission to take an elective course. In this way, students are afforded opportunity to devote special attention to those subjects required for admission to the bar in their respective states.

All candidates for admission to the bar in Kentucky must pass an examination before the Circuit Court of a district in which the applicant does not reside, in the following subjects:

The common law; equity jurisprudence; constitutional law, federal and state; criminal law; real property; contracts; pleading; evidence; negotiable instruments; torts; corporations, public and private.

### Method of Instruction

The method of instruction varies to some extent in accordance with the subject and the professor in charge. In the main, however, it is a combination of the text book and case methods. The use of at least a brief text serves to give the student the general principles of the subject in their relation to each other; and the reading, in connection with the text, of cases in which these principles are developed and applied, serves to aid both the memory and the understanding. The study of the text and cases is accompanied by a searching quiz on the part of the professor, and by further oral exposition and discussion. The aim throughout is to develop the scientific principles underlying the law and the ability of the student to apply them to varying facts and conditions.

Final examinations are held upon each subject as it is concluded, and the last month of the Senior year is devoted to a general review of the whole course, with special reference to the preparation of the graduates for admission to the bar.

## COURSE OF STUDY

The curriculum is arranged for a course of two years of nine months each, students taking the first year's work being known as Juniors and those in second year as Seniors. The work of each session is divided into three terms, ending respectively at Christmas, the Friday nearest the middle of March, and Commencement. After a subject is taken up, recitations are held upon it daily until it is completed, and it is believed that by thus concentrating the student's attention, better results are obtained than by instruction in a number of subjects concurrently, with recitations at longer intervals. The studies during the first year consist chiefly of substantive law, while the greater part of the second year is devoted to procedure and its kindred branches. The work is further so arranged that it can be begun with any term, and hitherto, some of the most successful students have been those entering after the Christmas holidays. It is strongly urged, however, that wherever possible, the student should enter promptly at the beginning of the Fall term.

An outline of the courses of instruction is given below.

## JUNIOR YEAR

## (1) Elementary Law—Professor Throckmorton.

This course serves as a general introduction to the study of law, and consists of lectures on the various systems of law, the common law in its application to modern American law, the sources of modern municipal law, and an analysis of the whole field of law. The student is required to read portions of *Blackstone's* and *Kent's Commentaries* and certain illustrative cases.

## (2) Contracts—Professor Throckmorton.

*Clark on Contracts* (second edition), *Huffcut and Woodruff's American Cases on Contracts* (second edition), the Professor's Notes.

## (3) Agency—Professor Throckmorton.

*Mechem's Outlines of Agency* (second edition), *Mechem's Cases on Agency*.

(4) Real Property, Wills and Administration—Professor Throckmorton.

*Tiedeman on Real Property* (third edition), *Gates's Cases on Real Property*, Lectures and the Professor's notes.

(5) Constitutional Law, Federal and State—Professor Throckmorton.

*Cooley's Principles of Constitutional Law* (third edition), *Boyd's Cases on Constitutional Law* (second edition).

(6) Domestic Relations—Professor Throckmorton.

*Long on Domestic Relations*, *Woodruff's Cases on Domestic Relations*.

(7) Personal Property—Professor Throckmorton.

Instruction is given on the subjects of title by occupancy and title by gifts by means of lectures and illustrative cases. Instruction in the more important subject of sales is based on a text-book and cases.

*Benjamin's Principles of Sales*, *Benjamin's Cases on Sales*.

(8) Bailments and Carriers—Professor Price.

*Lawson on Bailments*, Selected cases.

(9) Negotiable Instruments—Professor Throckmorton.

*Huffcut's Cases on Negotiable Instruments*.

(10) Brief Making—Professor Throckmorton.

This course runs throughout the year and includes such subjects as American law publications, how to find the law, how to use decisions and statutes, the trial brief, and the brief on appeal. Each student is required to prepare several briefs during the session.

*Abbot's Brief-Making and the use of Law Books*.

#### SENIOR YEAR

(1) Common Law Pleading—Professor Jackson.

*Shipman's Common Law Pleading* (second edition). Lectures and the Professor's notes.

(2) Code Pleading and Practice—Professor Jackson.

*Bliss on Code Pleading*, Selected Cases, and the Professor's notes.

(3) Equity Jurisprudence—Professor Rodes.

*Eaton on Equity*, Lectures and the Professor's notes.

(4) Corporations—Professor Rodés.

*Clark on Corporations.* Lectures and Selected Cases.

(5) Insurance—Professor Jackson.

This course covers the essential principles of fire, life and marine insurance.

*Elliott on Insurance, Elliott's Cases on Insurance.*

(6) Partnership—Professor Price.

*Mechem's Elements of Partnership.* Selected Cases.

(7) Evidence—Professor Price.

*McKelvey on Evidence* (second edition), *Gates's Cases on Evidence.*

(8) Criminal Law and Procedure—Professor Price.

*Clark's Criminal Law, Beale's Criminal Pleading and Practice.*

(9) Torts—Professor Rodés.

*Cooley on Torts.*

(10) Conflict of Laws—Professor Throckmorton.

*Minor's Conflict of Laws.*

(11) Special Lectures on Appellate Practice, Federal Procedure and Examination of Land Titles.

### Scheme of Lectures

	JUNIORS	SENIORS
FIRST TERM	The Common Law Contracts Agency Use of Law Books	Common Law Pleading Corporations Criminal Law and Procedure Examination of Land Titles
SECOND TERM	Real Property Domestic Relations Personal Property Brief Making	Code Pleading Appellate Practice Equity Jurisprudence Partnership Conflict of Laws
THIRD TERM	Constitutional Law Bailments and Carriers Negotiable Instruments	Evidence Torts Federal Procedure Insurance

### Law Debating Society

The J. Proctor Knott Law Debating Society meets fort-

nightly and affords the student opportunity from the very beginning of his course for the oral discussion and application of the principles of law. The society is conducted by the students themselves, but the questions for debate are furnished by the professors, at least one of whom is present at every meeting, and is expected, at the close of the discussion, to give his opinion upon the points under discussion.

### Moot Court

In connection with the regular courses in Pleading and Practice, the students are constantly required to draw all kinds of pleadings, which are examined and criticised by the professor in presence of the class. The class in Real Property is also utilized as a school of conveyancing, in which the students are required to prepare deeds, wills, contracts, leases, etc. Early in January the Moot Court is organized, and thereafter meets once a week until the end of the session. Here the students are given valuable practice in pleading and procedure under both the common law and code systems, embracing also criminal procedure and procedure in the courts of equity.

### Law Library

The Law Library consists of a valuable collection of Encyclopedias, Text Books, Reports and Digests, and is located in the large and comfortable room immediately over the recitation hall.

In March, 1903, the Library was greatly enlarged through the generous gift of Mrs. Robert P. Jacobs of the law library of her husband, the late Hon. Robert P. Jacobs, as a memorial of Mr. Jacobs' former connection with the Law School and of his abiding interest in its welfare. Since then further valuable donations to the Library have been made by Mrs. Jacobs, Mr. Frank Flaig, the Courier-Journal Job Printing Company, Hon. John D. Carroll, and Mr. Charles F. Beach, Jr. During the session of 1909-1910, a valuable collection of books was presented to the Library by the well-known law firm of Fairleigh, Straus & Fairleigh, of Louisville.

In 1907 an endowment of \$1,000 was provided by Mrs.

Jacobs, the income from which is applied to the purchase of books for the Library. This fund, together with the incidental fee of one dollar a term paid by each student, provides the means for the steady growth of the Library.

The Library is under the supervision of a competent librarian, and is open all day. Students are encouraged to make free use of it in connection with their daily recitations, and more especially in preparing briefs, and in the work of the law debating society and the Moot Court.

The Library is supplied with a typewriter of standard make, free use of which is had by the students.

### **Law School Building**

The south wing of the Old College building has been set apart for the use of the Law School. The large recitation hall on the first floor has been fitted up with individual desks with writing arms attached, while the library in the room on the second floor is accessible at all times both from the recitation room and the outside.

### **Examinations and Degree**

A grade of seventy-five per cent is required as a passing mark in all studies, and upon the successful completion of the regular class work, and that of the Moot Court and other assigned work, the degree of LL. B. is conferred upon the student.

### **Honors and Prizes**

1. **FACULTY PRIZE**—To that member of the Junior class who attains the highest general average of proficiency during the session, is annually awarded a copy of Black's Law Dictionary.

2. **THE JACOBS PRIZE**—This prize has been established by Mrs. Robert P. Jacobs as a memorial to her late husband, Hon. Robert P. Jacobs, a former Professor in the Law School. It consists of \$25.00 in law books to be awarded annually to that member of the Senior class who attains the highest general average in the work of that year.

3. **LAW SCHOOL ORATION**—One member of the graduating class is selected each year by the Faculty to deliver an oration known as the Law School Oration, on Commencement Day.

## EXPENSES

The tuition fee in the Law School is \$75 for the session, payable in three equal installments at the beginning of the first, second, and third terms. For students attending the full course of lectures in both the Junior and Senior classes, the tuition fee is \$100. Students matriculating after the opening of the session will be charged in proportion. An incidental fee of \$3 per session is charged to cover use of the Library and typewriter and damage to property. A further fee of \$7 is charged upon graduation to cover cost of diploma and commencement expenses.

The cost of books will vary. If all are bought new, the total cost of those used in the entire two years' course is about \$60. Students are advised to wait until they reach Danville before purchasing their books, as special arrangements are made by which they are furnished through the Librarian at reduced prices.

Good board may be had in private homes in Danville at from \$5.00 to \$6.00 per week, or by rooming in Breckinridge Hall or the College Home, these expenses may be reduced to from \$3.50 to \$4 per week.

It is believed that owing to the connection of the Law School with the University, an opportunity is afforded the law students for comfortable living at very moderate expense quite unusual with professional students.

For further information, apply to

A. H. THROCKMORTON, *Dean*.

Danville, Ky.



## DEGREES CONFERRED, JUNE, 1909.

Arderly, William Breckinridge	Paris
Bach, Chester	Jackson
Clark, Alvan Hawes	Hopkinsville
(A. B., South Kentucky College.)	
Dosker, Nicholas Herman	Louisville
(A. B., Centre College.)	
Enwright, George Dickinson	Danville
Green, Ernest Lorraine	Shelbyville
(A. B., Centre College.)	
Harlan, Jay Wellington	Danville
(A. B., Centre College.)	
Owsley, Estel Edward	Middlesboro
Voris, Edward Franklin	Danville
(A. B., Centre College.)	
Wakefield, John James, Jr.	Bloomfield
(A. B., Centre College.)	

## FACULTY PRIZE

Diederich, John Thomas	Ashland
Trent, Charles Stanley	Lawrenceburg

## JACOBS PRIZE

Clark, Alvan Hawes	Hopkinsville
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## LAW SCHOOL ORATOR

Dosker, Nicholas Herman	Louisville
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## STUDENTS IN THE COLLEGE OF LAW

## Senior Class

Coleman, David Walter	Harrodsburg
Diederich, John Thomas	Ashland
Howerton, Davis Monroe	Newfoundland
Lanier, Addison	Danville
Lanier, Isaac	Danville
Moorman, Roy Evan	Hardinsburg
Wingate, Albert Daniel	Danville
Wise, Keith Bolling	Leesburg, Va.
Woodford, William	Paris

## Junior Class

Abercrombie, Samuel Davis	Tuscaloosa, Ala.
Agee, William Lewis	Seventy-six
Cheek, James Clinton, Jr.	Fulton
Duffy, William M.	Louisville
Ellis, William Varn	Danville
Foster, Alexander Gwyn, Jr.	El Paso, Texas
Fox, Edgar Lee	Louisville
Hay, Charles Kinkaid	Danville
Hess, Frederick Ireland Shannon	Louisville
Laswell, Floyd James	Owensboro
Lawson, Silas S.	Williamsburg
Pepper, Charles A.	Princeton
Lee, Charles Frederick	Fort Gay, W. Va.
Smith, Howard Basil	Glasgow
Vinson, Fred Moore	Louisa
Vinton, Thomas Wood	Memphis, Tenn.
Welsh, Hugh Emerson	St. Mary's, Ohio

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